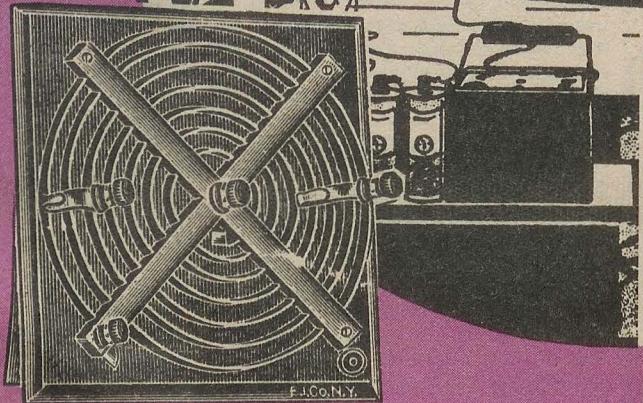
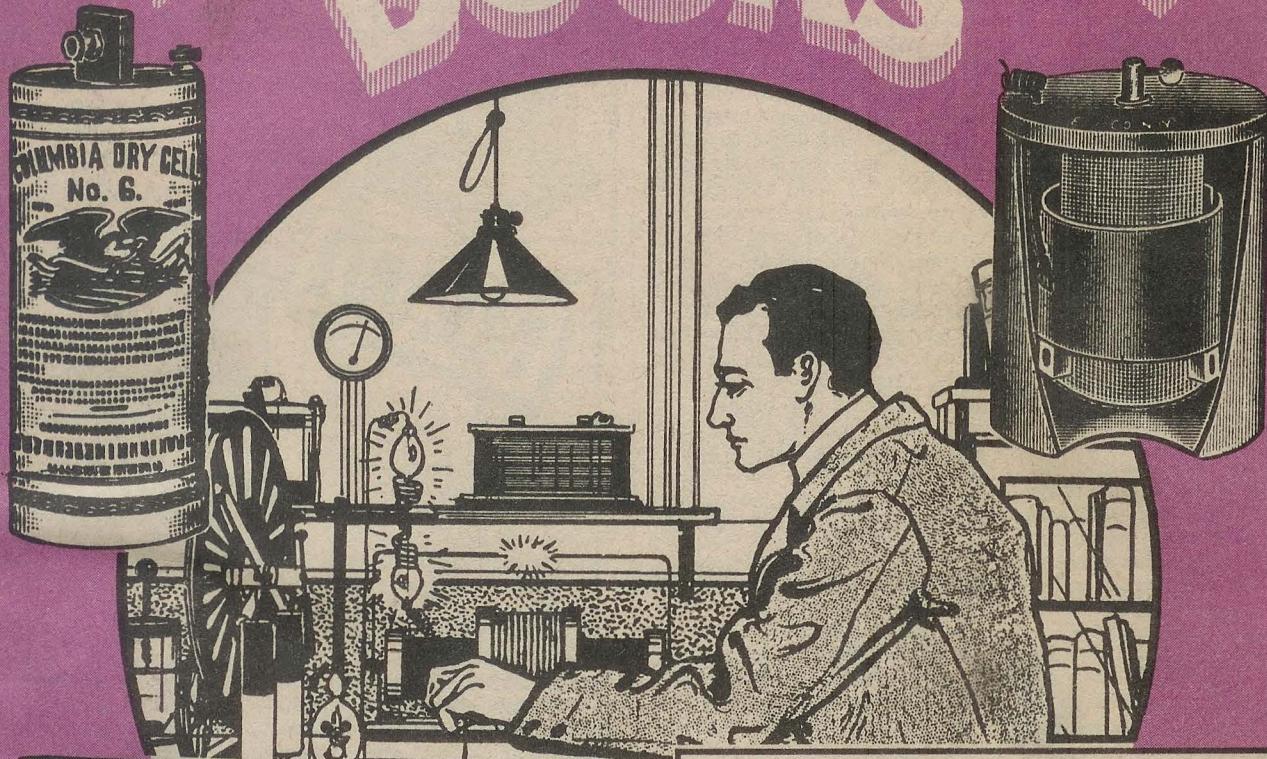


Lindsay's

# ELECTRICAL BOOKS!

No. 509  
Winter 1991  
\$1.00



## Don't Miss These...

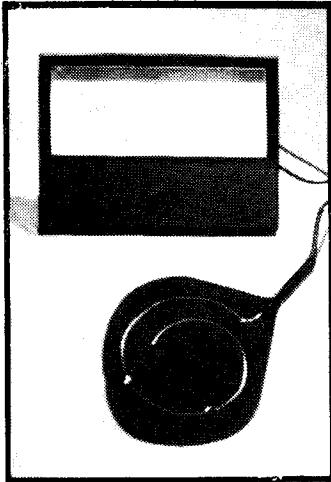
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books from the past and present...

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# Build a SOLAR CELL that really works!



## How to Build a SOLAR CELL That Really Works by Walt Noon

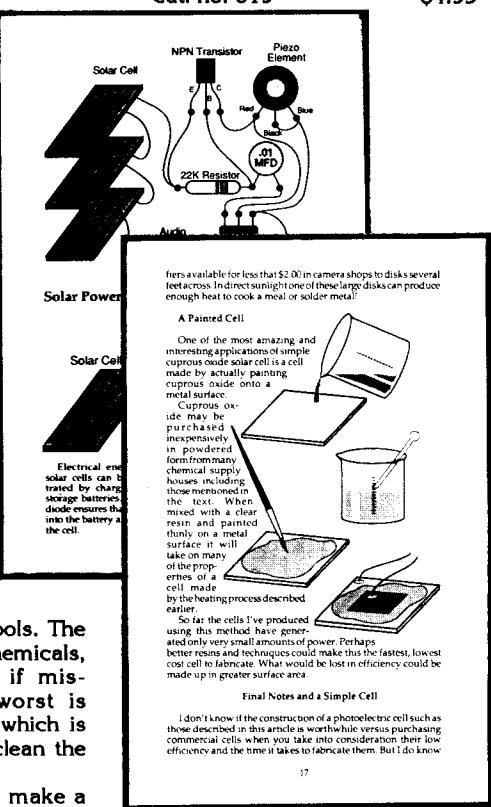
Yes! You CAN build a solar cell that converts sunshine into electricity. And it's really quite easy.

Modem high efficiency solar cells based on silicon crystals are difficult and dangerous to manufacture. You would need exceptionally expensive equipment just to perform the most basic experiments. But fortunately there is another method.

Walt Noon will show you how to quickly and inexpensively build a copper oxide photo cell. Admittedly its overall efficiency doesn't come close to modern silicon cells, but neither does the cost. You can crank out cells for pennies. Connect many cells in parallel and series, and you can generate surprising amounts of power.

The process requires only simple tools. The chemicals, like all chemicals, can be dangerous if mishandled, but the worst is probably nitric acid which is used to thoroughly clean the copper.

He'll show you to make a



working cell, test it, troubleshoot it if necessary, and even give you ideas on an experimental painted cell that he's working on. In addition, he'll give you schematics of test circuits, sample applications, and interesting projects that he's tried. You'll also get names and addresses of suppliers.

That author is not a professional, but he has safely built and used these solar cells, and he's willing to show you how it's done. You get a 24 page booklet with many drawings, schematics and photographs that describes the relatively simple process in detail.

Build solar cells! Perhaps you can make some improvement in the process that will improve efficiency. Build electronic equipment. Charge batteries. Build a great science fair project. No matter what your objective, you'll find this to be a fascinating project worth trying. Rare information! Order a copy of this inexpensive booklet today. 5 1/2 x 8 1/2 booklet 22 page

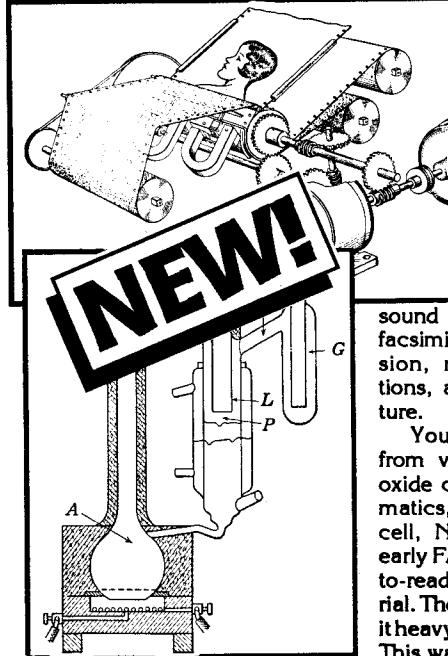
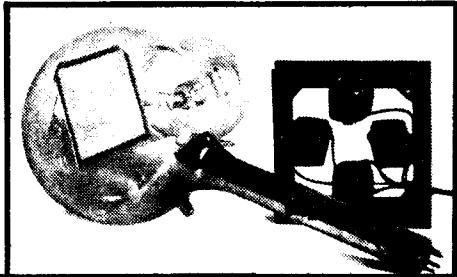
Cat. no. 819

\$4.95

# Photocells and Their Application

PHOTOCELLS and Their Application  
by Zworykin and Wilson  
reprinted by Lindsay Publications

Here's a fascinating book! Zworykin is credited with making television practical by developing the iconoscope



for RCA that allowed the experimental TV broadcasts before World War II, and with the extremely sensitive image orthicon that made modern TV possible after the war. (I have a couple of each of these old tubes in the warehouse. They're beautiful devices!) This book was first copyrighted in 1930, with this second edition carrying a 1934 copyright.

You get a complete education in photocell state-of-the-art as it existed in the early 1930's. This is the base material that lead us to television and the solar cell technology.

Chapters include historical introduction, radiant energy, photo-emissive effect, photosensitive films, material and apparatus for making photocells, general methods of preparing photocells, the vacuum photocell, the gas-filled photocell, photo-conductive photocells,

photo-voltaic cells, photocell output and amplifying tubes, optimum outputs of photocells, the problem of amplification, special light-sensitive devices, the photocell in photometry and colorimetry, the photocell in sound movies, the photocell in facsimile, the photocell in television, miscellaneous applications, and photocells in the future.

You get great illustrations from vacuum pumps, cesium-oxide cells, and amplifier schematics, to a Zworykin multiple cell, Nipkow TV system, and early FAX machine. This is easy-to-read and covers great material. There is a little math, some of it heavy, but what do you expect? This was written for engineers.

There is limited material on cells which produce electricity directly from sunlight such as the Rayfoto cell, the Photolytic cell, the Ruben cell, the Grondahl-Gieger cell (a copper oxide cell the plans for which are offered elsewhere in this catalog), the Sperrscht cell, and others. You won't get how-to-build instructions, but you might very well get the bits and pieces that lead you off into a new direction of experimentation, or provide you with new ideas to research in technical literature.

This is a great book presenting rare information. And it's written by a giant in the history of television. It's easy and fun to read. The illustrations are great. Yes, you know I'm strange, but I think that you'll enjoy reading this as much as I do. I like it. I think you will too. 5x7 paperback 348 pages Cat. no. 20560 \$11.95



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# PRIMARY BATTERIES!

## PRIMARY BATTERIES

by Henry S. Carhart  
reprinted by Lindsay Publications

Great! You've built a radio, a Tesla coil, or some other piece of electrical gear. How are you going to power it? Sure, you can buy batteries, or plug it into the wall, but wouldn't it be more authentic, more impressive if it were powered by a bank of batteries that you built as well?

You can find instructions about cell construction, but they tell you little else. Here's a great little book that covers the characteristics, construction, performance, maintenance, and measurements of primary batteries, that is, batteries that

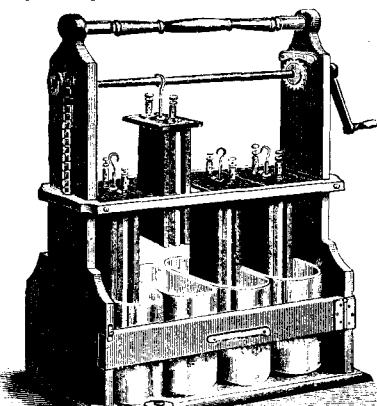


turn chemicals into electricity.

This is not really how-to. You won't be given dimensions, parts lists, nor detailed formulae. In many instances you may get enough information to build a successful cell. What you do get is what I call "practical theory" — knowledge that will help you understand turn-of-the-century batteries and get the most from them.

Chapters include introduction, simple voltaic cell, potential and electromotive force, closed circuit batteries, open circuit batteries, batteries without a depolarizer, standards of electromotive force, miscellaneous batteries, battery tests, grouping of cells, and thermal relations.

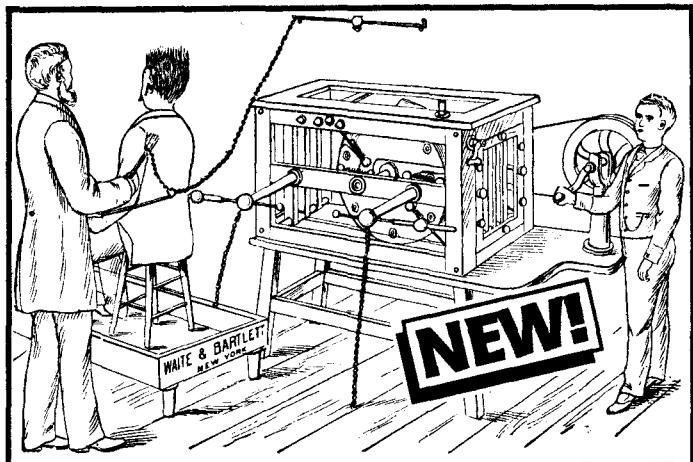
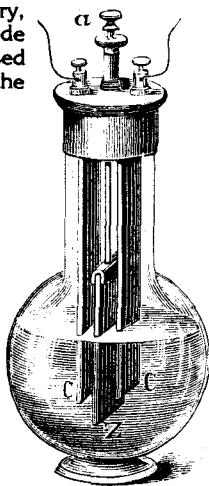
The chapters are actually broken into 118 sections such as experiments on the polarization of a simple cell, defects of the Daniell cell, the bichromate battery, the copper-oxide battery, the closed Leclanche cell, the



Smee cell, the Law battery, the Gassner dry battery, Lord Rayleigh's form of the Clark element, Minchin's seleno-aluminum cell, Jablonskoff's battery, test of a silver chloride cell, grouping dissimilar cells, application of the Bunsen cell, and much more.

Again, this is not a construction text. Once you read this book though, you can decide what type of battery to build and go from there. Why waste your time and money building a battery that won't do the job? Know what you are up against before you start.

Excellent book. Great illustrations. Easy-to-read text. Understandable theory. Worth having. Order a copy! 5x7 paperback 208 pages  
Cat. no. 20536 \$8.95



## Practical Electricity in Medicine & Surgery

### PRACTICAL ELECTRICITY

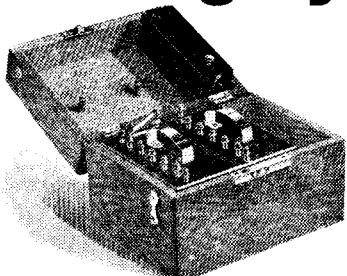
In Medicine and Surgery  
by G. W. Overall, MD  
reprinted by Lindsay Publications

I'm not sure I can believe what I read in this book. Overall wants you to believe that electricity can cure everything from lead poisoning to constipation. (Of course, over the years I have gotten the — shocked out of me more than once.)

If you believe in electro-therapy, that's your business. I don't. But I do like this as an early handbook on electrical machines, the excitement they caused, and the hopes that people had that electricity would solve the world's ills, if not their own.

You'll find this to be a reprint of the rare first 1890 edition published in Memphis TN. It's broken into four parts which contain chapters covering the galvanic cell, galvanic current, Faradic current, the effect of these currents, electro-diagnosis, modes of application, the electric cabinet vapor bath, the electric tub bath, treatment of special diseases of the brain, paralysis, rheumatism, chorea, and so on. Part four covers electrolysis, organic diseases of women, electro-cautery, batteries, electrodes, and so on.

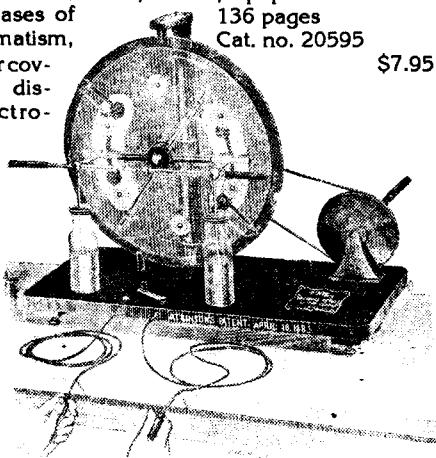
What I particularly like are the first few pages that describe and show static machines and their use, as well as galvanic battery machines, and so on. Later in the book are unusual medical electrodes that look like something out of a Frankenstein movie.



Again, I don't believe the info in the back half of book. In fact, it might be downright dangerous. But this IS a rare book that gives you a glimpse into early ideas about electricity and its use in medicine.

Consider this book carefully. I think it's unusual, and worth having. (After all, I don't go to the expense and trouble of reprinting books that I feel are NOT worth having. I may be crazy, but not stupid! Yes, I know. People would debate that too.) Maybe I can use this as a guide to build equipment to deal with my loony in-laws. Maybe you can, too. Rare, interesting book. Order a copy.

5 1/2 x 8 1/2 paperback  
136 pages  
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Gernsback's

# EDUCATIONAL LIBRARY

## Gernsback's Educational Library reprinted by Lindsay Publications

In the late 1930's Hugo Gernsback's Radio Publications company in New York published a series of ten shortwave radio booklets to satisfy the public's growing interest in building and operating shortwave sets.

Each booklet is 32 pages in length, is well illustrated, and has a brilliant yellow cover. Each covers a different topic from radio construction to electrical experiments to television.

You'll find these little booklets fascinating reading, full of ideas, and you'll find each to be a slice of early radio history back when radios were built on breadboards with handtools instead of printed circuits.

The original booklets were printed during the Great Depression on inferior quality paper and are now quite rare. But you can get high quality copies on quality paper and enjoy them again.

Order a set today!

### No. 1 How to Build 4 DOERLE SHORTWAVE SETS

Build the 2-tube 12,500 mil "Doerle" shortwave receiver and the 3-tube signal gripper. You then get instructions on modifying these two basic radios into a bandspread receiver and an 110 VAC operated version.

Cat. no. 820 \$2.25

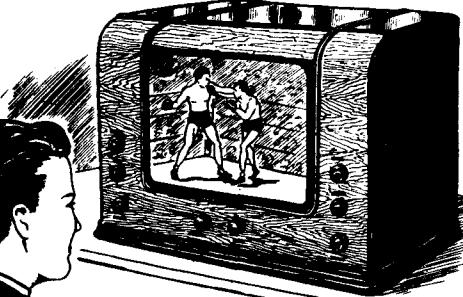
### No. 2 How to Make Most Popular All Wave 1 and 2 TUBE RECEIVERS

Build a Megadyne one-tube loudspeaker set, a beginner's 1 tube AC-DC set, a four-in-two all-wave all electric 2-tube set, a super-regenerative single-tube loudspeaker set, a portable 2-tube battery loudspeaker receiver, and a beginners' one-tube all-wave battery set.

Cat. no. 821 \$2.25

### No. 3 ALTERNATING CURRENT FOR BEGINNERS

Study theory, and perform home experiments with AC such as lighting a lamp induction, making a simple electric horn, watch demagnetizer, simple test for motor armature defects, bell-ringing transformer, charging storage



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batteries from an AC source, simple test for condensers, AC electromagnets, magnetic levitation, simple motors, lamp dimmer, and more.

Cat. no. 822 \$2.25

### No. 4 ALL ABOUT AERIALS

Part one covers receiving antennas with notes on tuned antennas, broadcast antennas, low impedance transmission line, doublets for shortwave, transposed leadin, a SW antenna tuner, antenna construction, a double-doublet all-wave antenna, doublet installations and more. Part II covers transmitting antennas for amateur stations including the half-wave antenna, output matching circuits, construction, the Zepp, a counterpoise system, and more.

Cat. no. 823 \$2.25

### No. 5 BEGINNERS' RADIO DICTIONARY

A complete 32 page dictionary for beginners. Obviously, most the terms are still in use, but some are not. Brief definitions and a number of illustrations are provided. Learn about acceptors, counterpoise, ferromagnetic modulation, interrupter, keying flicker, strays, water rheostat and much more.

Cat. no. 824 \$2.25



### No. 6 How to HAVE FUN WITH RADIO

Unusual experiments! Try the "Talking Newspaper" which is nothing more than a loudspeaker made from aluminum foil and newspapers! Also try talking gloves, radio electric chair (put a frying pan in your pants), visual music, dancing to silent music, musical and talking gadgets, the radio dancer, home broadcasting, the door that talked, and more!

Cat. no. 825 \$2.25

### No. 7 How to READ RADIO DIAGRAMS

Learn how to translate radio diagrams into physical equipment. You get pictures, definitions, and equivalent symbols of radio components. Then you'll see circuit diagrams for a variety of circuits from crystal sets to multi-tube radios as well as the physical layout they represent. Basic information, but essential to



radio newcomers in 1938.

Cat. no. 826 \$2.25

### No. 8 RADIO FOR BEGINNERS

Learn about wave analogies, principles of transmitting, and receiving principles. A lengthy section on receiving instruments will show you how tank circuits tune to particular wavelengths and how tubes and other components perform their jobs. You also get a section on antennas and aerials. Another essential booklet for the beginner.

Cat. no. 827 \$2.25

### No. 9 SIMPLE ELECTRICAL EXPERIMENTS

Build a galvanometer, experimental magnet, simple motor, electric shocker, microphone, arc lamp, electric furnace, arc welder, a homemade key, batteryless flashlight and more. Perform tricks with telephone receivers and experiments with lamps, neon lamps, condensers, talking condensers, static electricity, and more. You'll find a brief section on making a magnet, on rheostats and how to use them, rectifiers, simple measuring instruments, heat or cold from junction of dissimilar metals, handy wire gauge, musical instruments, and more.

Cat. no. 828 \$2.25

### No. 10 TELEVISION

In 1938 this was high-tech electronics! You get a primer of television, including details on mirror scanning, Scophony system, and movies for television. Study the kinescope or cathode ray tube and how the sweeping beam is synchronized. Learn about receiver antennas, how TV programs are broadcast, network TV, and even a Scophony system for color television! Quite interesting.

Cat. no. 829 \$2.25

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Cat. no. 930 \$9.95

#### PACKAGE Numbers 6 through 10

Get all five for one low price. Save \$1.30.  
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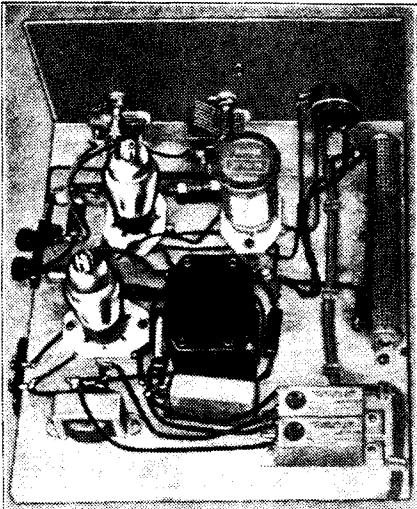
## HAMMARLUND SHORT WAVE MANUAL

Third Edition

reprinted by Lindsay Publications Inc

For only ten cents you could buy this 32 page booklet and choose which of the twelve different shortwave radios you wanted to build. These were the depression years, and Hammarlund, one of the most reputable manufacturer of radio parts, was eager to sell you what you needed to build a low-cost receiver.

You'll like this! The plans offer interesting detailed text that makes construction easy along with the basic schematic diagram, a parts connection diagram, tube pin layouts, coil charts and lots of photographs. I haven't seen any plans better done than these!



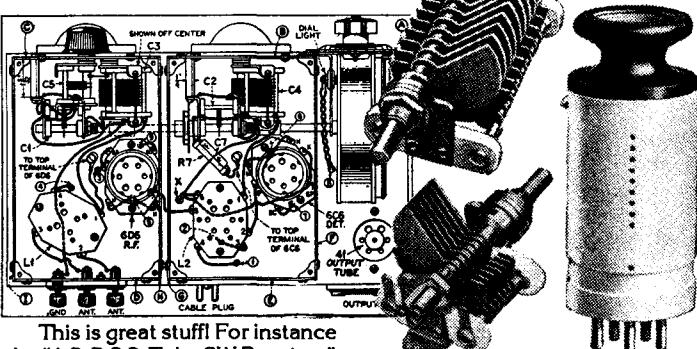
The "Pentaflex" uses a single 6A7 pentagrid converter tube as a regenerative detector and as an audio amplifier. This could be fun to build.

## 12 SW RECEIVERS from Hammarlund!

You get—

- A Boy Scout's S.W. Receiver
- ARRL Ham Receiver
- The Argonaut
- The AC-DC 2 Tube S.W. Receiver
- Doerle 2-Tube Receiver
- The Dragnet
- The Gainer
- The Pentaflex
- A Power Pack for S.W. Receivers
- Radio Amateur's Handbook 3-Tube Band Spread AC set
- The Ray Five Meter Set
- The Skyscraper
- A Three Tube S.W. Pentode Receiver

## Great 1937 Plan Book!

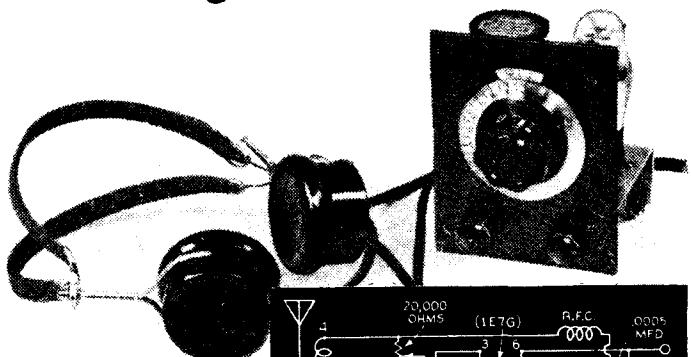


This is great stuff! For instance the "AC-DC 2-Tube SW Receiver" uses two double tubes, a 6F7 as an untuned RF amplifier and a tuned regenerative detector, and a 12A7 as audio amplifier and rectifier. The circuit is surprisingly simple, and yet I'm sure it performs very well!

This is fun reading and a great source of construction ideas. Get a copy of this. The price is reasonable and the content is super. Order a copy today. You'll enjoy it. 5 1/2 x 8 1/2 booklet 32 pages Cat. no. 4937 \$4.95

# Radio For the Millions

Great World War II Era Magazine Articles



## RADIO FOR THE MILLIONS

by Popular Science Monthly  
reprinted by Lindsay Publications

From the pages of World War II vintage issues of Popular Science Magazine came this reprint of well illustrated electronics articles on everything from phonographs and shortwave radios to cabinet design and radio servicing.

This is another of those jam-packed project books that are so much fun to read. By careful scrounging and trading you can still get many of the parts and relive the early days of electronics before transistors and integrated circuits.

Every one of the dozens of articles is illustrated with sharp photo-

Cat. no. 20196 \$8.95

## PARTIAL CONTENTS

One-Control Beginner's Radio; Get Started in Radio; Three-Tube TRF Receiver; One-Tube Loudspeaker Set; Four-Tube Speaker Receiver; Four Dollars Builds This Set; More Power for Your Two-Tube Radio; Home-made "Audio" Telegraph; Three-Tube Phonograph Receiver; Four-Tube TRF Receiver; Inexpensive Dual-Turntable Phonograph; Kitchen Radio; Two-Tube Set Gets Foreign Stations; Two-Way Radio Station; Combination Receiver and Amplifier; "Letter" Radio Can Be Mailed; Build an FM Receiver for \$22; A Tuner for Any Broadcast Set; World's Smallest PA Units; Twin-Bed Radio; Floor-Lamp Radio; Practice Code Sender and Receiver; Pocket Receiver for Sports; Tiny Portable

Operates Anywhere; Low-Cost Power Supply; Three-Tube Superhet; Compact All-Wave Set; Two-Tube AC-DC Receiver; Portable Radio-Phonograph; One-Tube Shortwave Set; Sliding Panel Tunes Novel Receiver; All-Wave Bands on Two Tubes; Compact Radio-Tube Tester; Europe on One Tube; Bicycle Radio; "B" Supply for Portables; Priority Receiver Uses New Tuning; Compact Rectifier Unit; Midget Broadcast Set; Week-Enders Radio; Midget AC-DC Receiver; Book-End Radio for Your Den; One-Tube All-Electric Set; Superhet for Beginners; Pocket-Size Radio Tester; "Wireless" Radio Phonograph; Low-Cost Home Recorder; Tom Thumb Radio; Suitcase Phonograph; Two-Tube Portable; and much more!

# Introduction to MAGNETISM

Not too simple

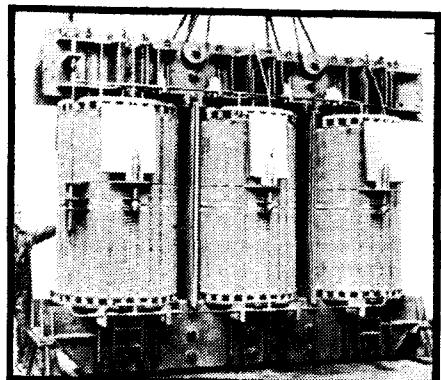
Not too complex

Just right!

MAGNETISM — An Introductory Survey by E. W. Lee

The back cover of this book explains it all very well...

"The lodestone was known to the ancient Greeks; the Chinese knew of the compass a thousand years ago; in the 16th century Gilbert described magnetic poles. Professor Lee takes us through the early experiments to the first modern accomplishments of Oersted,

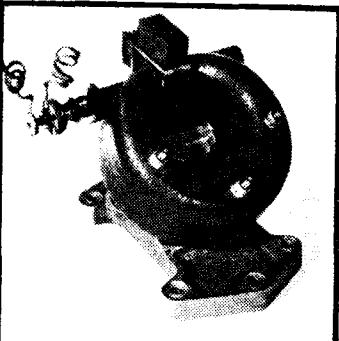


domain boundaries; high-permeability alloys, their theoretical basis and uses; magnetic matrices used as computer-age storage devices; ferromagnetism and antiferromagnetism; the use of magnetism in modern scientific research; and problems of the earth's magnetism, including its meaning to Wegener theory of continental drift and solar phenomena."

You get 60 diagrams and sketches and more than 32 pages of photographs. If you want to explore the theory, you can study the mathematics that explains magnetism.

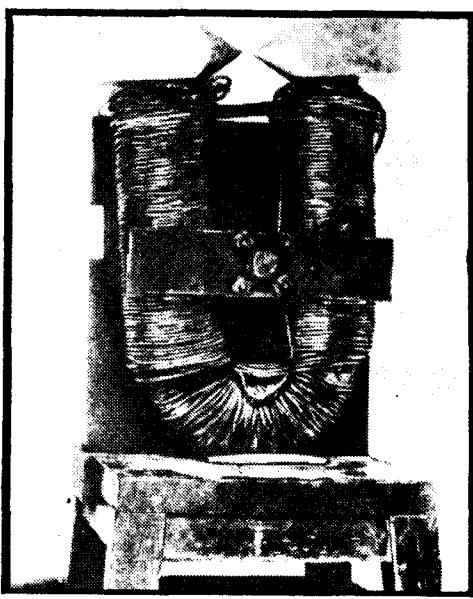
This is one heck of a lot of book for the money. And it's must reading for basement engineers, experimenters, even the guy who's trying to build a magnetic motor or perpetual motion machine. Great background information. Order a copy. 5 1/2 x 8 1/2 paperback 281 pages

\$6.95

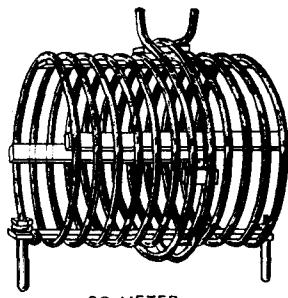
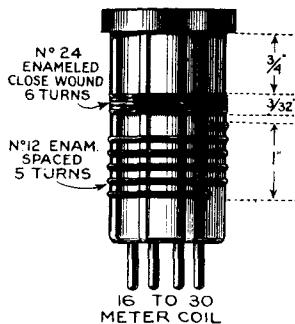


Ampere and Faraday. We then learn the principles behind electric motors, dynamos, transformers, permanent magnets, synchrotrons, solenoids, memory banks in computers, betatrons, magnetic supercooling, and other modern applications....

"The author shows us how magnetism 'works,' with reference to such concepts and principles as lines of force; ferromagnetism; the atomic theory of matter in relation to electromagnetic properties; paramagnetism and diamagnetism; quantitative measurement of magnetic force; domains and



# SHORT WAVE COIL DATA BOOK



## SHORTWAVE COIL DATA BOOK

by Radio Publications

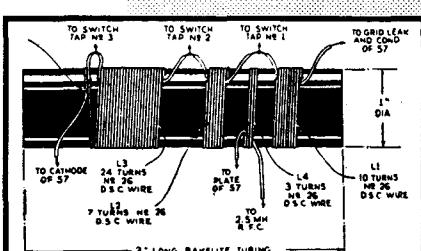
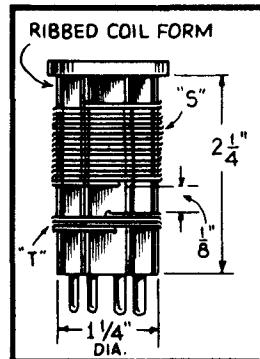
Coils! Coils! Coils! They're the heart and soul of shortwave radio receivers and transmitters. A properly wound low-loss coil can make the difference between having an average piece of gear or a hot performer. And it seems the simpler the receiver, the more important the coils.

Here in one jam-packed booklet from 1937 are hints, tips, charts to help the shortwave radio builder design and build the best coils possible. You get informative articles from Gemback magazines such as

- Coil Data for TRF Receivers
- The One Tube Oscillodyne Coils
- The Mono-Coil
- 2 Winding Coils for 10-500 Meters
- Coils for a 3 Tube Band Spreader
- and many others

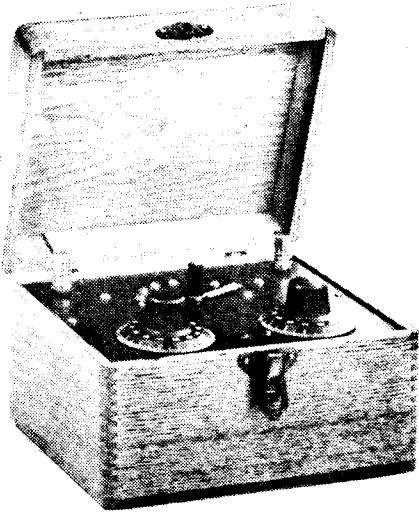
You also get nine different circuit diagrams for the "Most Popular SW

## 1937 Coil Data



Tuning Circuits" and five "Transmitting Circuits employing the coils described".

This is highly specialized information on just one important topic essential to successful radio construction. It's only 16 pages but it's quite inexpensive and delivers. Get a copy! 8 1/2 x 11 booklet 16 pages Cat. no. 830 \$1.95



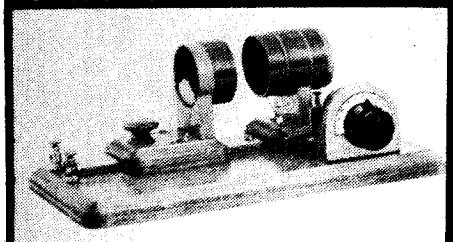
# RADIOS THAT WORK FOR FREE!

*Build a High Performance Crystal Set!*

## RADIOS THAT WORK FOR FREE

by K.E. Edwards

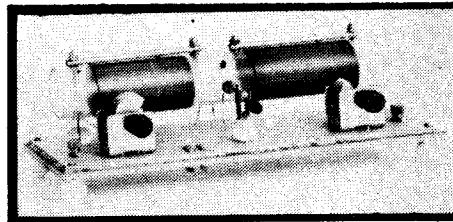
Build yourself a crystal set! You'll be shown everything you need to know - from materials to tools to techniques. Edwards will show you how to build "hot-rod" crystal sets with fancy features that can outperform the old oatmeal box versions, but are still simple. If you've



never built anything electronic at any time but would like to try, this is a great place to start. This book has become a classic in its field, and it gives me a good feeling. I think you'll like it, too. 5 1/2 x 8 1/2 paperback 138 pages — well illustrated

Cat. No. 314

\$7.95

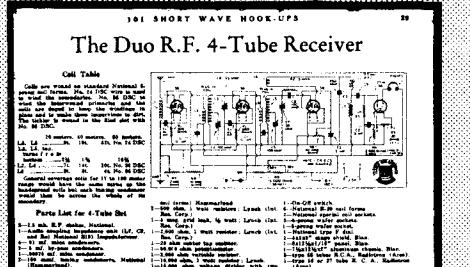


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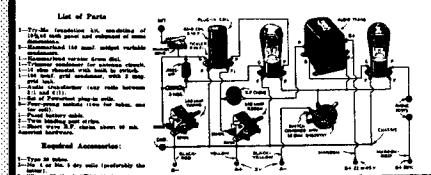
# 101 Short Wave Hookups

Some of the circuits you'll find:

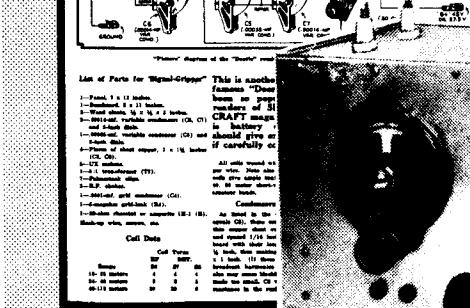
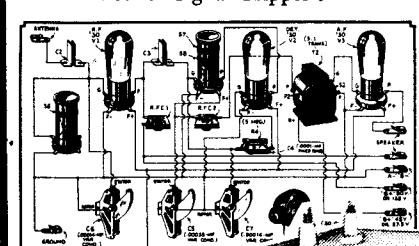
The Mono Coil 2  
Ham-Band Pee-Wee 3 Tuber  
The Pal 2-Tube Portable  
The Electrodyne 1-Tube Set  
A Dual Regeneration Control Set  
An Advanced 5-Tube Receiver  
Master Composite 4  
Short-Wave Thrills on 2 Tubes  
A 4-Tube Superhet  
The Globe Girdler  
Mitchell 7-Tube Superhet  
Ultra Seven Portable All Wave Superhet  
Short-Wave Megadyne  
An Improved Super Regenerator  
The 53 1-Tube Twinplex  
Building a 2-Tube Oscillodyne  
A Balanced-Detector Super-Regenerator  
A 5-Tube AC Oscillodyne Set  
A 5-Meter Super-Regenerator  
A German SW Set  
A Symmetrical Input Super-Regenerator  
A 2-Volt 3-Tube Ham Set  
5-Meter Transmitter and Receiver  
and much more....



### The Beginners Twin Receiver



### Doerle "Signal Gripper 3"



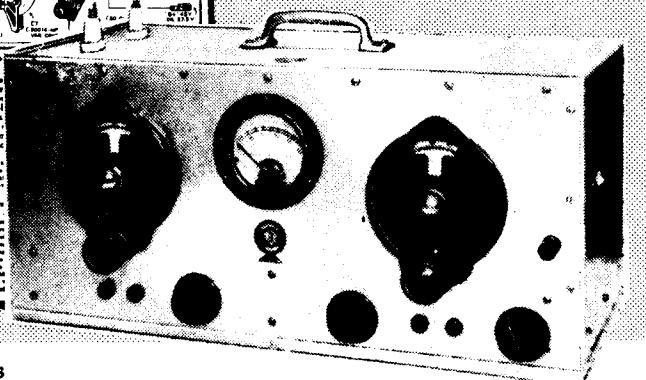
### 101 Short Wave Hook-Ups

by Short Wave Craft magazine

Somehow I never get tired looking at old radio diagrams. I'm continually amazed at how much performance could be obtained from such a limited amount of relatively primitive equipment. I guess that's why I like this circuit book.

*"This book has been prepared in response to many requests for a compilation of short-wave circuit diagrams which have appeared in Short Wave Craft magazine during the past few years. Where ever possible, complete parts lists have been given with the diagrams and, in some cases photographs of the equipment are also included...."*

This is one big, fun picture book of radio circuits. It's broken into six broad sections entitled Straight S-W Receivers, S-W Super-



# Great Radio Circuits from 1935!

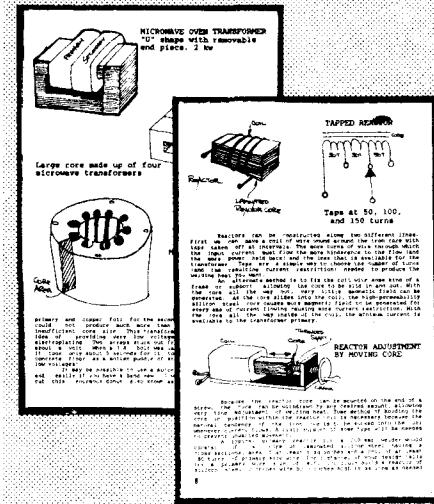
hetrodynes, Super-Regenerative Receivers, AC-DC Receivers, Miscellaneous, and Transmitters. Unless I counted wrong, I totaled up 91 different circuits.

Get a copy of this. You'll like it. It's wall-to-wall fun. A crazy collection of radio circuits from about 1935. Order a copy. 7 1/4 x 9 1/2 paperback 72 pages

Cat. no. 20382

\$7.95

# Build A Powerful Welder!



## How to Design and BUILD A 200 AMP WELDER

You can find many different welders on the market, so why even consider building one? Maybe you can save money. Perhaps you need something bigger than 200 amps and want to scale up a standard design. Of course, there's always the pride of being able to say you built it yourself. Or perhaps you would just like to know how they work.

Here's a publication for the mechanic (the non-electrician) — an introduction to transformer welders. You'll learn how transformers work, what is and is not important in the design of a welder transformer, how current is controlled, how an AC to DC rectifier bank is built, and more. You can design welders for 100, 200 or more amps using the principles revealed here.

You will *NOT* get complicated theory. You get information that has been learned by study and by doing, rather than from designing transformers as a profession. You'll learn the unique aspects of controlling heavy welder currents. This is information generally available nowhere else. After reading and studying this manual, you'll probably want to refer to other books which cover heavy transformer design theory, details on silicon steel, wire types, design problems and much more.

You can build a single transformer that can kick out heavy currents for welding, thawing pipes, AND, when used with a bridge rectifier, can be used to charge batteries, electroplate and more.

Get a copy of this hot little manual. You'll find that it is very clearly written and easy-to-read. This is the FIRST book you should consider before building or even possibly repairing a transformer welder. Order a copy today. 5 1/2 x 8 1/2 30 pages.

Cat. No. 85

\$4.00

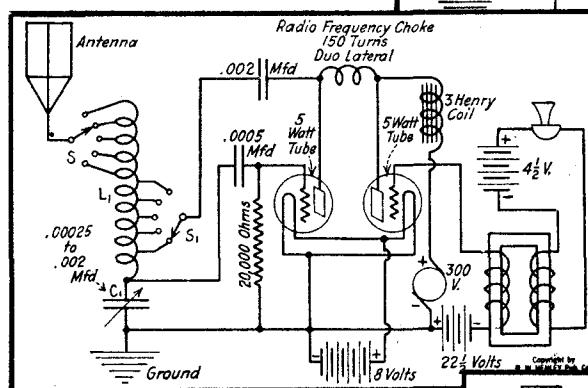
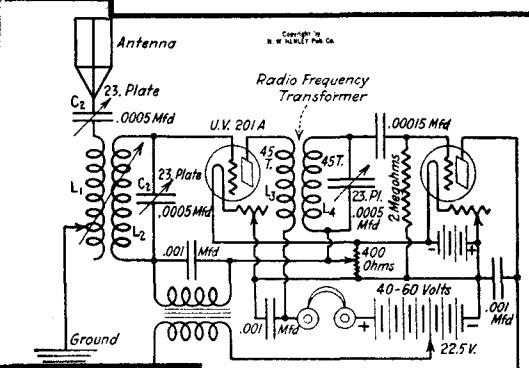
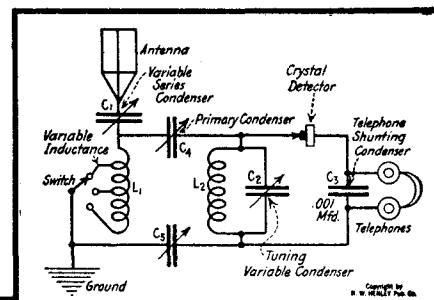
# 222 Radio Circuit Designs!

## HENLEY'S 222 RADIO CIRCUIT DESIGNS

by Anderson, Mills, & Lewis

Wow! If you're into building old time radio circuits or just reliving those old days, you **MUST** have this incredible book of schematics from 1924!

The subtitle reads: "A comprehensive and up-to-date collection of modern receiving and transmitting circuits with complete design data showing the electrical values of inductances, capacities and resistances with the name of each element



**Incredible collection of radio plans from 1924!**

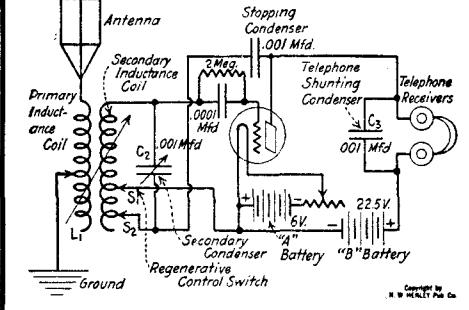
on the diagram of the circuit. Each circuit has actually been tested and can be successfully built and operated when directions are followed. Includes explanations of wave length, frequency, tuning, antenna construction, fundamental coupling schemes, and tells how to select manufactured parts, fire underwriters regulations, list of all symbols used, glossary of technical terms, list of broadcasting stations, and a table showing the characteristics of available vacuum tubes."

You get loads of circuits on all kinds of equipment. For instance chapter six presents 25 different schematics for the basic crystal set using every conceivable type of loading and tuning arrangement.

Chapter seven launches the reader into vacuum tube detectors some with even more incredible tuning arrangements. You'll find a variety of regenerative receivers, and even a crystal receiver with an RF amplifier!

After chapter eight on audio amplifiers comes chapter nine on miscellaneous circuits which include

- ultra-audio receiver
- Reinartz tuner with RF, detection and audio
- one tube reflex with crystal detector
- three tube reflex with RF transformers
- inverse reflex
- CW receiver with BFO
- three tube neutrodyne



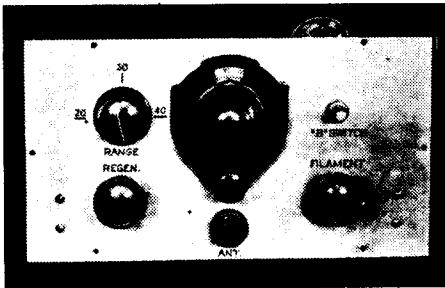
- counter EMF circuits
- Cockaday receiver
- Bishop super-regenerative receiver
- many others

The final section of circuit diagrams reveals designs for spark, CW, modulated CW and AM transmitters. Transmit from your car, through power lines, or from aerials!

If you love to look at old circuit diagrams and relive the days of radio when sets were simple and components hot and heavy, then this book is for you. You won't find any 1/4 watt resistors, DIP IC's, or LED's. You have better be looking for iron core audio transformers, carbon microphones, and UV203's!

Absolutely great book! Great fun! A must have! Order a copy. You'll like it. 5 1/2 x 8 1/2 paperback 271 pages  
Cat. no. 20323

\$11.95



# 1936 Radio Data Book

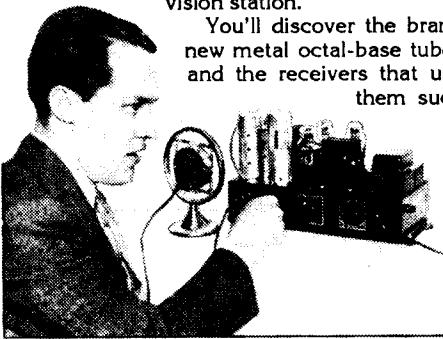
## 1936 RADIO DATA BOOK

by Radio News Magazine  
reprinted by Lindsay Publications

Get the latest radio news by studying the best articles from the 1935 issues of Radio News and Shortwave Radio Magazine.

Learn about the latest developments in television - disk scanning versus cathode ray systems. Learn about a new Canadian television station.

You'll discover the brand new metal octal-base tubes and the receivers that use them such



as the Atwater Kent 649, the GE A-82, and the Super Skyrider. You get plans for shortwave radios: a single tube all-wave set, a 3-band set, and 9-tube amateur receiver, and more.

Amateurs learn how to build transmitters, a 3/4 meter transceiver, and how to use the latest transmitting tubes.

Learn to build broadcast receivers: a universal superhet, a 2-volt DX'ers Super, a Superhet De Luxe, and more.

You also get articles on servicing, on audio amplifiers, on engineering design, and on radio experimenting. And you also get lists of stations broadcasting in the US and world shortwave stations. Every page will be well illustrated with photos, schematics, drawings and tables.

This is a fun book for old-time radio buffs. It's useful if you're a builder, and great reading whether you build or not. Another fascinating book for your radio reference library. 8 1/2 x 11 paperback 64 pages

Cat. no. 20218

\$5.95

# DOERLE Receivers & Transmitters

## DOERLE CATALOG

originally offered by Oscar Kusterman, NY  
reprinted by Lindsay Publications

Here's a great little catalog from out of the 1930's issued by the New York radio dealer, Oscar B. Kusterman. You get great illustrations and descriptive copy of receivers and ham radio transmitters, along with schematics and practical details.

Examine the Doerle Model D-7 with its 6K7 RF amp feeding a regenerative detector and a powerful AF amplifier. A separate 6J5 acts as a superregenerative detector for 2 1/2, 5, and 10 meters. How well did it work? I don't know. Build one and see. You won't get any how-to, but you do get the complete wiring diagram.

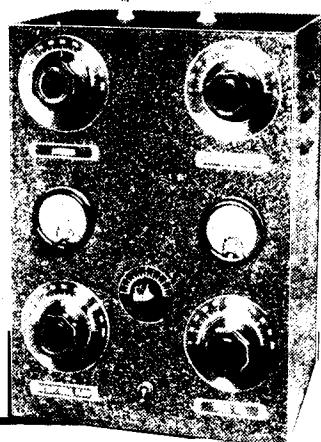
You could buy the 2 tube SW receiver using 37's in a regenerative configuration to pull in local and foreign broadcast stations and bands from 600 to 12 meters. A kit sold for \$2.50 less tubes, or ready to use for only \$4.00.

And there's the 3-tube AC-DC receiver good for 600 to 12 meters. Using the three 76 tubes, this model could run off batteries or 110 VAC, and made a "fine personal set for use with headphones."

You'll find the five tube BS-5 Five Band Bandswitch Receiver, the Doerle Model D-5 cover 1000 to 9 meters, the Doerle "19" single tube receiver kit, the Doerle AC 4, and more.

You could have purchased the HF-19 5-meter transceiver kit, the TR4 5-meter transceptor, a two stage audio amplifier, or a 10 watt modulator. The HF-35 tri-tet transmitter could put out 35 watts on the 160 through 20 meter amateur bands using metal receiving tubes. And you'll find several more transmitters, receivers, and modulators, along with miscellaneous parts needed for construction.

You'll even find one page with circuits "for the fan who builds his own receiver hookups." At the back of the catalog is an order blank, but don't try to use it. I've already notified the New



**Beginner's 2-Tube BATTERY OR ELECTRIC S-W Receiver**

**The Smallest Receiver on the Market**

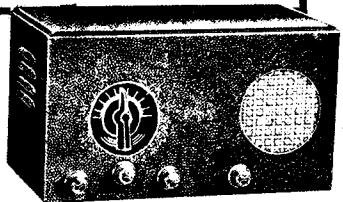
A powerful battery operated model short wave receiver which uses only two tubes, or 6J5 tubes, or 6.3 volt in electric model. Operates entirely from inexpensive batteries. The receiver uses two tubes as hi-gain regenerative detector and one single audio frequency amp. Produces unusually good volume on headphones. Will receive foreign as well as American stations with a volume and regularity that will surprise you and your friends.

Kit includes all parts and factory assembled mount on a heavy black shrivel finished metal cabinet. All holes are drilled and lined. Simple way to follow instructions enable even the beginner to obtain excellent results.

**Diagram of 2-tube Beginner's Receiver**

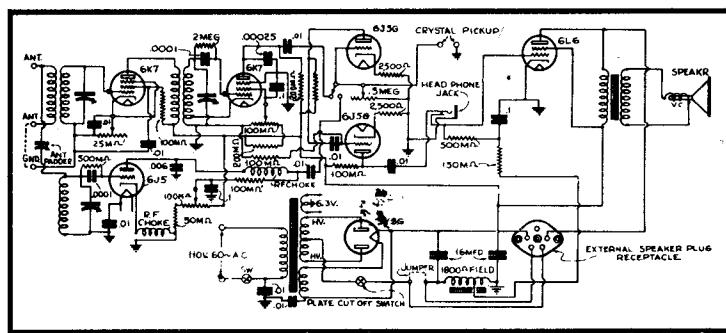
**Price:** Complete with tubes and coils for 12 to 600 meters, and ready to use \$4.00. Double headphones, if desired, (extra) 1.50. Kit with 110 VAC power supply, with coils 12 to 600 meters, but less tubes and unboxed 2.50. If tubes are desired, add \$1.00. Add \$1.00 for electric model of same price upon special order.

**Note:** Specify whether you desire electric or battery operated model.



York City post office, and if you try to order any of this merchandise, postal authorities will track you down and have you put away where you belong.

But that doesn't mean you can't browse through this catalog and imagine operating one of these sets. What's more, you can start searching for old parts so that you can build one of these famous little radios.

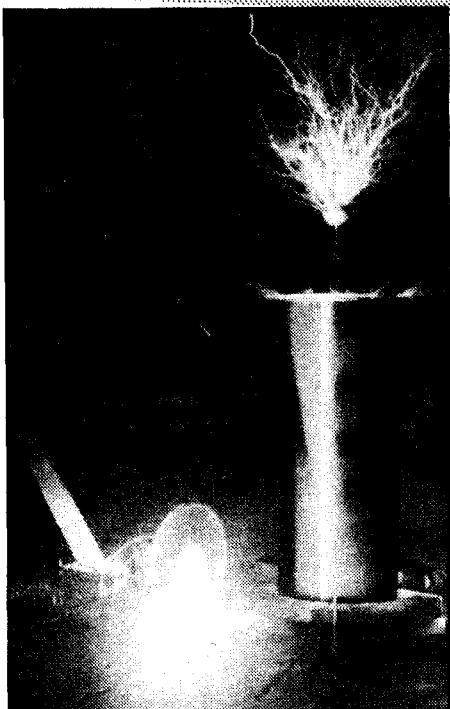


Get a copy of this. It's well illustrated and fun to read. And it's inexpensive. Order a copy today! 8 1/2 x 11 booklet 24 pages well illustrated  
Cat. no. 20455  
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# Homemade Lighting!

using plans from  
*High Frequency Apparatus*

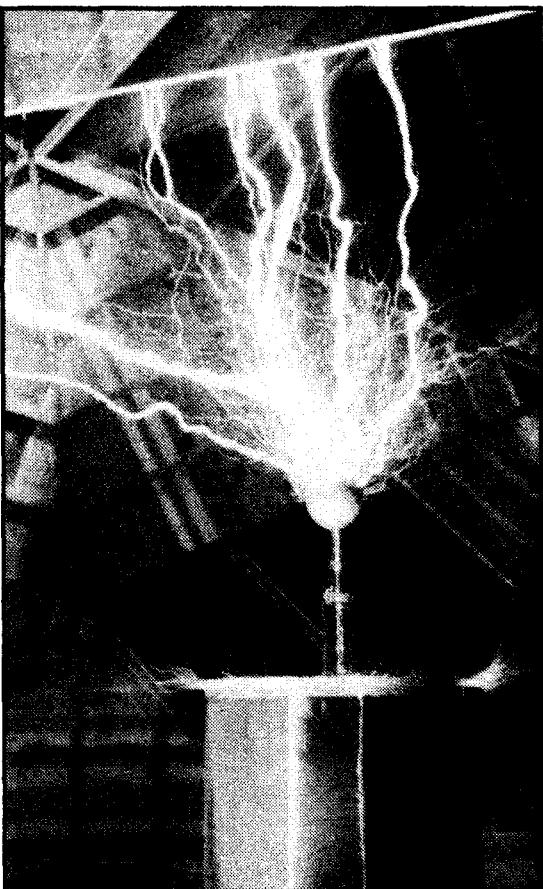


Recently I received two incredible photographs and a note from Paul Dieterlen.

"Have ordered from you a couple of times in the past. Recently finished an apparatus from the Curtis book. Thought you might be interested in the results. Thanks for providing these fascinating books!"

Judging from the photos, Paul apparently built the 1/2 kilowatt high voltage machine described in *High Frequency Apparatus* by Curtis. Look at the length of the lightning bolts it throws! The spherical terminal at the top of the apparatus sits on a glass Coke™ bottle. The confusing background in the photos appears to be the interior of a wooden geodesic dome!

Paul also writes, "I like to think that there are still important fundamental aspects of Nature to be discovered, and feel that the enthusiastic, knowledgeable individual motivated by curiosity and fascination with the workings of Nature could still be the key to important basic advances in science. The books you offer seem to be chosen with great discretion for their stimulating content and value as material worth preserving..."



## UNEXPLAINED MYSTERIES!

**UNEXPLAINED MYSTERIES  
of the 20th Century**  
by Janet & Colin Bord

From the back cover:

"Here in one far-reaching, illustrated volume is an intriguing collection of unexplained phenomena and mysterious happenings. From spirits and poltergeists, eerie balls of light, and unaccounted-for objects dropping from the sky to USOs (unidentified submarine objects) and their occupants, this absorbing compendium documents hundreds of supernatural ap- partitions of the modern world.

With a country-by-country gazetteer, you'll encounter chilling accounts of objects that dematerialize in one place and rematerialize elsewhere, messages sent by spirits through computer terminals, and religious icons weeping tears chemically indistinguishable from human tears. Perhaps the strangest sightings are those of weird, inexplicable creatures - winged

people, giant snakes, monsters from lakes and seas, and "little people" from Britain and Ireland.

Some of the questions you'll be left pondering include:

- What would cause a man just killed in an airplane accident to telephone his family to tell them he was okay?
- Why would a woman hitchhiker keep accepting rides at the very spot she was killed years before?
- How could a man in Oklahoma speak from his grave after having been buried for eighteen years?
- How could a person spontaneously burst into flames for no apparent reason?..."

You'll find this to be interesting at the very least. If you're into researching this sort of thing you'll find the "gazetteer" valuable. It's a brief description of unusual



**more than  
85 eye-  
witness  
photographs!**

spontaneous combustion...  
mysterious animals....  
unusual sightings...  
much more!

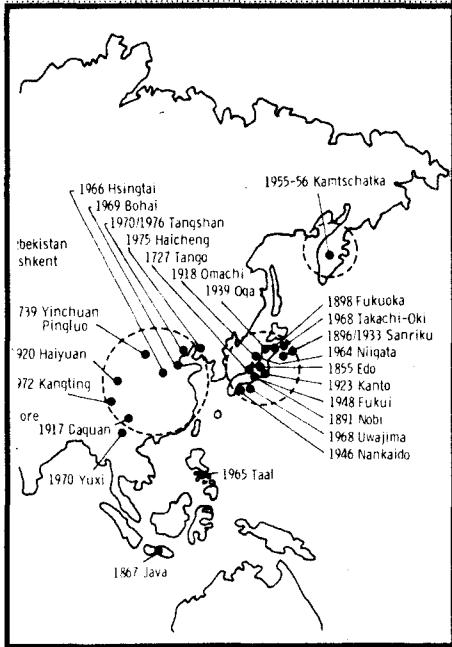


events, when and where they took place - over 90 pages of strange events from around the world.

Unusual and interesting. Consider it. 7x10 paperback  
432 pages  
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# WHEN SNAKES AWAKE!



## WHEN THE SNAKES AWAKE Animals & Earthquake Prediction by Helmut Tributsch

by Helmut Tributsch  
From the back cover: "Two days before an earthquake struck Helice, Greece, in 373 BC, snakes, weasels, and worms deserted the city. Minutes before the Naples quake of 1805, oxen, sheep, dogs, and geese cried out in unison. A herd of horses tore loose and ran off in panic just prior to the San Francisco earthquake of 1906."

Helmut Tributsch, Professor of Physical Chemistry at the Free University of Berlin, visited his native village of Friuli shortly after it had been devastated by an earthquake in 1976. He was intrigued by the stories told by his old friends about their animals' strange behavior in the hours before the quake. This experience started Tributsch on a search through ancient and modern literature for stories relating animal behavior and the appearance of such phenomena as luminosity, clouded springs, and strange fogs to the onset of earthquakes. This book summarizes his findings and presents a plausible explanation for them. Tributsch urges Western scientists to follow the lead of their Chinese colleagues and learn to use these signs as a possible key to the prediction of natural disasters."

This is really an interesting book published by MIT covering 78 earthquakes from 373 BC to 1979 and the unusual phenomena that accompanied them. Not only is it interesting reading, but researches into the fringes of science will find the tables in the appendices quite useful.

Unusual. Reliable. I think you'll like it. 6x9  
paperback 248 pages  
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# HIGH FREQUENCY APPARATUS

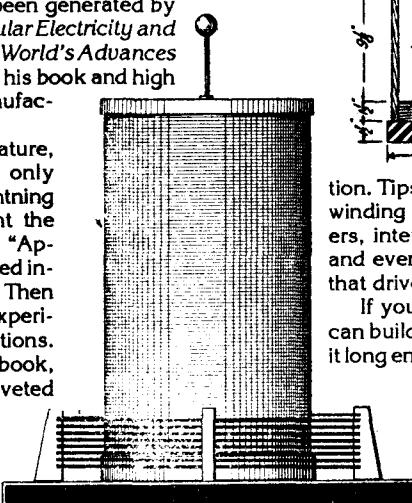
# Classic High Voltage Text is Back in Print!

**High Frequency Apparatus**  
by Thomas Stanley Curtis  
reprinted by Lindsay Publications

By 1916 so much interest in induction, Tesla and Oudin coils had been generated by *Electrician & Mechanic*, *Popular Electricity* and *Modern Mechanics*, and *The World's Advances* magazines, that Curtis knew his book and high voltage equipment he manufactured would be a hit.

Because of their very nature, magazines could publish only brief articles on these lightning bolt generators. Curtis went the other extreme, and packed "Apparatus" with as much detailed information as he could find. Then he added suggestions for experiments and dozens of illustrations. The result is now a classic book, and original copies are so coveted that they're difficult to find.

You get wall-to-wall how-to on coil construc-



tion. Tips on calculating windings, winding coils, making transformers, interrupters and spark gaps, and even the power transformers that drive the spark gap.

If you want to die young, you can build an X-ray apparatus. Use it long enough, and you and every-

one in your apartment building will glow in the dark!

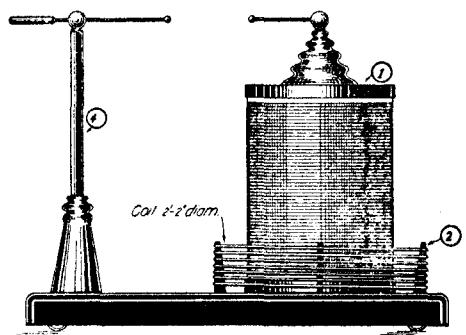
Build a grid and see for yourself if high frequency current re-

frequency current really does affect plant growth. Build yourself a large coil that produces 50" lightning bolts, give lectures, and make people think you are a genuine made scientist. (Bring your mother-in-law along. They might mistake her for Frankenstein....)

Great book. And absolutely **MUST HAVE** book for the Tesla coil experimenters. Get a copy for your high-voltage library. Quality. Order a copy today. 5 1/2 x 8 1/2 paper 247 pages well illustrated

Cat. no. 20030

\$11.95



## Contents

- 1 Alternating Current at Low and High Frequencies
- 2 How the High Frequency Current is Produced
- 3 The High Potential Transformer or Induction Coil
- 4 The Oscillation Transformer
- 5 The Spark Gap
- 6 Oscillation Transformers
- 7 Induction Coil Outfits Operated on Battery Current
- 8 Kicking Coil Apparatus
- 9 One-Half Kilowatt Transformer Outfit
- 10 Quenched Gap Apparatus
- 11 Physicians' Portable Apparatus
- 12 Physicians' Office Equipment
- 13 Hot Wire Meter Construction
- 14 Notes for the Beginner in Electro-Therapeutics
- 15 Plant Culture with High Tension Current
- 16 High Frequency Plant Culture
- 17 A Foreword on the Construction of Electrical Apparatus for the Stage
- 18 Construction of Large High Frequency Apparatus
- 19 Large Tesla and Oudin Coils for the Stage
- 20 Construction of a Welding Transformer
- 21 Hints for the Electrical Entertainer
- Appendix Parts and Materials - How Much They Cost and Where to Get Them

Special Hardcover Edition

## **Not Available**

# Build a High-Voltage WIMSHURST MACHINE

## THE WIMSHURST MACHINE

### How to Make and Use It

by Alfred W Marshall

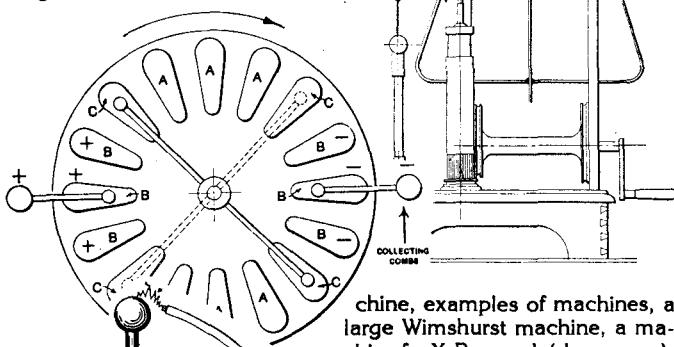
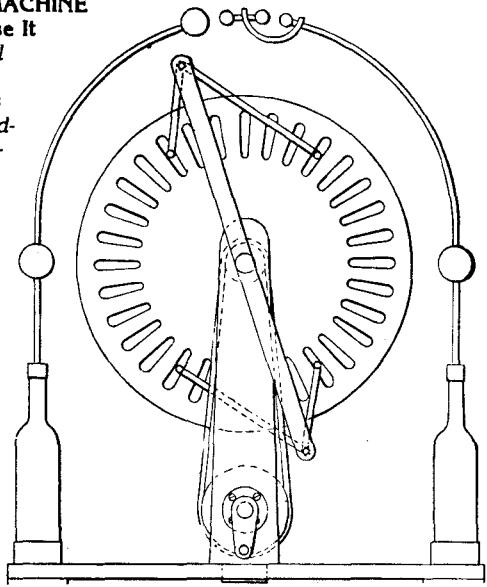
reprinted by

Lindsay Publications

"A practical handbook on the construction and working of the Wimshurst machine, including radiography and wireless telegraphy, etc., and other static electrical apparatus."

Build yourself a copy of this classic lightning bolt generator. This is no toy! Its 24" plates will knock your socks off — and probably electrocute you if used with Leyden jar accumulators. This is a heavy duty machine.

Chapters include introduction, static electricity, the electrophorus, the electrostatic generator, condensers, the Leyden jar, parts of a Wimshurst machine, making and management of Wimshurst ma-

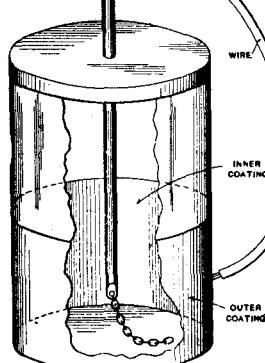


chine, examples of machines, a large Wimshurst machine, a machine for X-Ray work (dangerous), and experiments with machines.

This is a small book loaded with illustrations and wall-to-wall how-to. There are photographs but they are of poor quality. After all, in 1908 not every printer was capable of printing photographs.

This is quite a rare book. You would be hard pressed to find an original copy at any price. But you can have a copy for your library at a reasonable price and use it to build a machine or just to read. Get a copy. Great little book. You'll like it! 4x7 paperback 112 pages

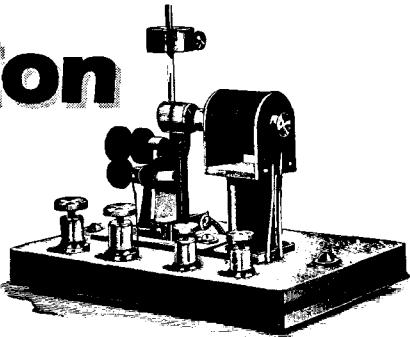
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# Induction Coils!

## How to Make, Use and Repair Them...



### INDUCTION COILS

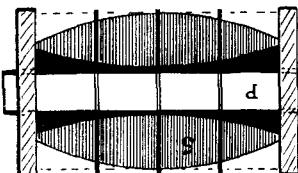
#### How to Make, Use, and Repair Them

by H. S. Norrie

reprinted by

Lindsay Publications Inc

Although this classic work first appeared in 1896, this fourth edition was printed in 1907. And it's just that — a classic. It's not the best book on induction coil construction, or batteries, or wireless telegraphy, or X-Ray or any other high voltage experimentation, because



each chapter could be a book in itself. But it is a classic that anyone interested in lightning bolt generators tries to get his hands on. And although Norrie's book covers much the same information as others, you get a different slant, a different point of view that you will find useful.

Chapters include Coil Construction, Contact Breakers, Insulations and Cements, Condensers, Experiments, Spectrum Analysis, Currents in Vacuo, Rotating Effects, Gas Lighting, Batteries for Coils, Storage or Secondary Cell, Tesla and Hertz Effects, the "Roentgen" Rays and Radiography, and Wireless Telegraphy.

You get information, some of it quite unique, on Ruhmkorff coils, oil immersed coils, a disruptive Tesla coil, medical coil with interchangeable secondaries, mercury vibrators, Wehnelt interrupter, adjustable cone vibrator, insulating compounds, Leyden Jar construction, glass plate condensers,

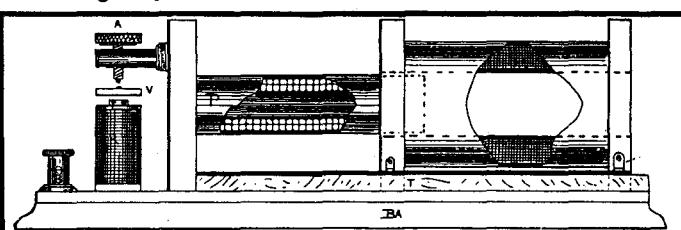
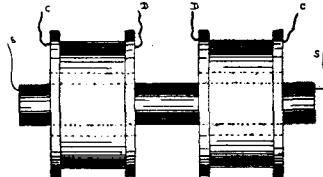
adjustable condensers, experiments with luminescent effects, use of the spectroscope with coils, different forms of mercury air pumps, Geissler tubes, effects of discharges in rotating tubes, application of the Ruhmkorff coil for lighting gas, and more.

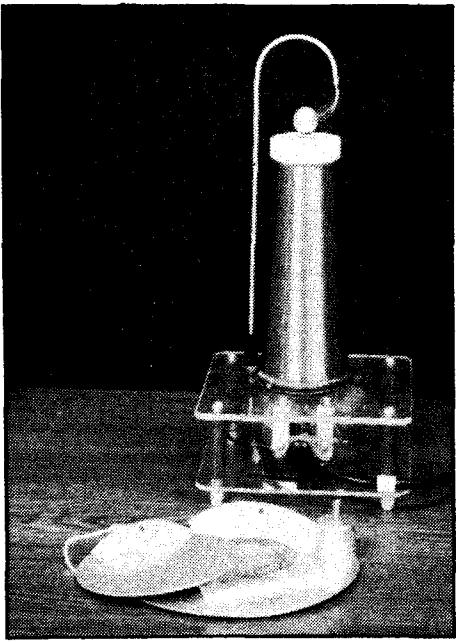
You'll learn how to build batteries: Grenet, Fuller, Gravity, Dun, Gethis, Gordon, New Standard, and others. Learn how to build and use secondary, or storage batteries. Investigate the "Tesla" effects, the use of high frequency currents in electro-therapy, ways of generating X-Rays (very dangerous), the construction of a very early wireless set using a coherer detector, and much more.

You'll find many illustrations. They aren't all that spectacular but you do get 79 drawings, and 8 tables.

This is a book that should be in every high voltage experimenter's library. It IS a classic. If it has any fault, it's that the author has tried to cover too much material in too small a book. Nevertheless, there is much here that you can use. The reprint will cost you less than the cost of an original if you can find one. Get a copy. You'll like it. 4 1/2 x 6 paperback 288 pages

Cat. no. 20510 \$9.95





Ready-to-Use

# TESLA COIL

## 50,000 Volt TESLA COIL

You say you don't have time to build a Tesla coil? But you'd like to experiment with one anyway? Here's your chance.

This small, safe coil is marketed to schools for demonstration purposes. I think it's a bit expensive, but you get a vibrator driven coil that produces a 1" spark, several pieces of hardware for experiments, and a 30 page book that provides theory of operation, background information, and instructions for 19 different experiments. It's an impressive little unit!

You can build a large Tesla coil for little money that will throw large sparks, but it takes time to accumulate the parts, assemble them, and adjust the unit. With this unit, you take it out of the box and plug it in. It works, and it works surprisingly well.

A local high school student big a large coil not long ago using information from books in this catalog. It threw large sparks and filled the air with ozone. Nevertheless, he was fascinated by this little coil, preferring it in many ways to the 30" unit he had built. In fact, not long ago, he borrowed our unit to give a demonstration and talk for his speech class. It went over big.

We don't manufacture this coil nor do we stock it. Your coil will be shipped direct to you from the factory. As a result, it may take longer to get your coil from them than it does to get your books directly from us.

Order yourself a working Tesla coil, or give it as a gift. Put one on the coffee table! Interesting unit. Overall height: about 12 inches. Base is 6" square. Runs off 110 volt 60 cycle house current. Produces 1" sparks. Order one! Cat. no. 378 \$168.50

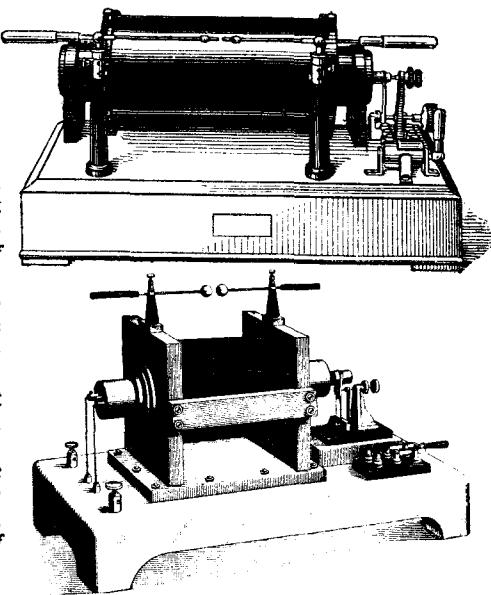
## The Design & Construction of INDUCTION COILS

by A. Frederick Collins

Inside the cover of this 1908 classic is the author's statement: "For over fifty years the induction coil has held a preeminent place in the experimental laboratory for the production of high potential [high voltage] currents, but it did not become a commercial piece of apparatus until Roentgen announced his discovery of the X-rays in 1890..."

The art of coil making has been developed to a remarkable degree, [but] the actual processes of construction... have not been hitherto available....

The present work treats of eight different sizes of coils, varying from one giving 1/2-inch sparks to a large one giving 12-inch sparks. These various sized coils are included in three specific designs, and I have tried to tell in easily comprehensible language each process in sequence, together with the dimensions of each part down to the smallest screw....

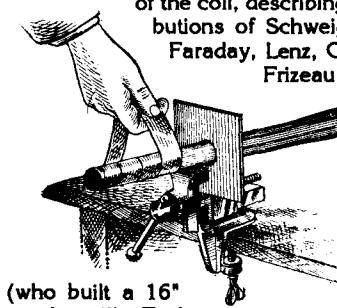


# Design and INDUCTION COILS

Much of the matter in this book has never been published before, as, for instance the vacuum drying and impregnating processes, the making of adjustable mica condensers, the construction of interlocking reversing switches, the set of complete wiring diagrams, etc...."

Here you get one of the best books I've ever seen on their construction.

The first chapter starts out with the history of the coil, describing the contributions of Schweigger, Davy, Faraday, Lenz, Callan, Neef, Frizeau, Ruhmkoff



(who built a 16" spark coil), Tesla (and his mercury turbine interrupter), and others.

The other nineteen chapters delve into the theory of the coil and the action of each of its components, design of spark coil cores, choosing interrupters, details of condenser design and size, and more. Wire is discussed along with its cutting, straightening, annealing, the making of the paper tube, bundling and taping wires for large cores, and more.

Detailed discussions reveal the advantages of silk versus cotton-covered magnet wire, mounting the spool in the lathe, winding the primary, making a winding jig, winding the primary by hand, insulating the primary, the intricacies of winding the high-voltage secondary

including details of a special winding machine, the impregnation of insulation waxes, the winding of helical secondaries, construction of aperture insulating rings, and more.

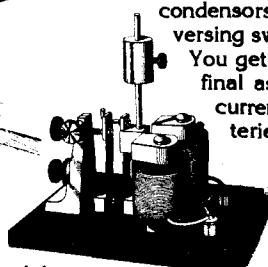
You'll learn how to dip the coil and bake it, build a vacuum apparatus to impregnate the apparatus, to dry the insulation, machine the parts for a simple spring interrupter, assemble the parts, mount the finished device, and more.

## 1908 Classic!

You'll learn about making tinfoil and paper condensers, adjustable mica condensers, reversing switches, and much more.

You get wiring diagrams for various coils, final assembly details, sources of direct current including dry cells, plunge batteries, chloride accumulators, and more.

This is a really a great book. You get more useful data in one place on building coils than you'll usually find in a dozen other books. Tesla coils are fun and fascinating, but so is the induction coil. Build one. Experiment. Have fun. Show your friends. Brag about it. Get a copy of this! Highly recommended! 5 1/2 x 8 1/2 paperback 272 pages - well illustrated Cat. no. 20404 \$12.95



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## Inventions, Researches &

Writings of

NIKOLA TESLA

by Thomas Commerford Martin  
reprinted by Lindsay Publications Inc

The greatest world's fair ever constructed was underway in Chicago in 1893. More electricity and more electric lights were used in the fair than in the entire city of Chicago. It was the electric age, and Edison was doing with commercial battle with Westinghouse and its star, Nikola Tesla.

In 1893, this volume, a comprehensive collection of Tesla's work to that point, was published. And although it is now quite rare, you can have a high quality reprint for a small fraction of what cost us to obtain an original copy.

Most people think of lightning generators when they think of Tesla, but that's a very narrow perspective. People should think of alternating current. Tesla created the power system used throughout the world today — one that operates at 50 and 60 cycles per second.

Tesla experimented with other frequencies, iron and air core transformers, as well as motors and generators. Tesla didn't just one day decide he was going to build his famous lightning bolt generator. It was but another step in a series of experiments that had begun years before. Here you get a complete record of this research up to 1893.

It's all here — the AC experiments and inventions that lead Tesla to experiment with ever higher voltages and frequencies, the neon tubes and fluorescent lights, unusual high frequency alternators and even magnet motors.

If you want to carry on Tesla's unusual research, you must walk in his footsteps. You must do your homework. Here in one volume is the early work that will help you get your mind in sync with his and perhaps suggest what he was thinking at the time, and give you ideas of where to take his experiments.

Every Tesla fan, every high voltage experimenter, and every electrical engineer should have a copy of this classic book. Just as much as Edison, Tesla created the world in which we live today. Now you can study the results of his research, attend his special exhibitions, and devour his lectures, with this single volume. Order a copy today! 15 1/2 x 8 1/2 paperback 496 pages

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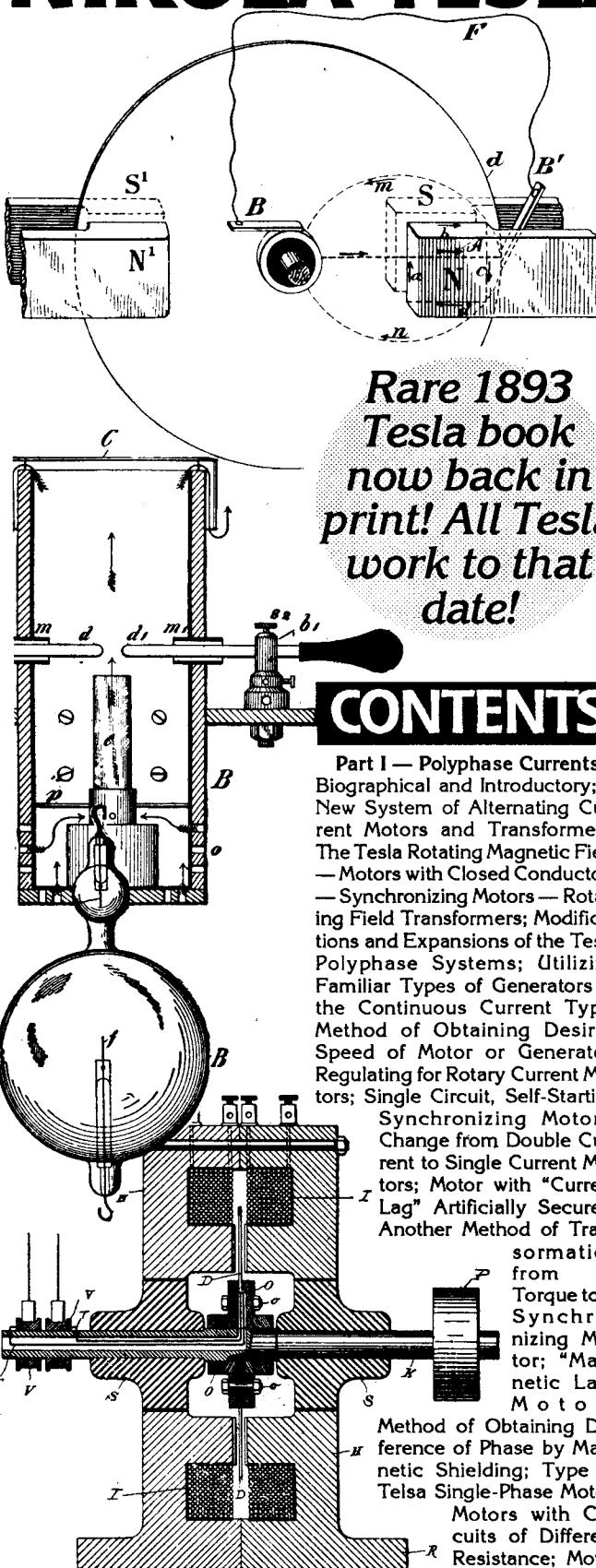
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# Inventions, Researches & Writings of NIKOLA TESLA

Incredible  
inventions! AC  
Power, High Voltage,  
High Frequency, Oil  
Condensers, even  
magnet motors!



Rare 1893  
Tesla book  
now back in  
print! All Tesla  
work to that  
date!

## CONTENTS

### Part I — Polyphase Currents

Biographical and Introductory; A New System of Alternating Current Motors and Transformers; The Tesla Rotating Magnetic Field — Motors with Closed Conductors — Synchronizing Motors — Rotating Field Transformers; Modifications and Expansions of the Tesla Polyphase Systems; Utilizing Familiar Types of Generators of the Continuous Current Type; Method of Obtaining Desired Speed of Motor or Generator; Regulating for Rotary Current Motors; Single Circuit, Self-Starting Synchronizing Motors; Change from Double Current to Single Current Motors; Motor with "Current Lag" Artificially Secured; Another Method of Transformation

from a Torque to A Synchronizing Motor; "Magnetic Lag" Motor; Method of Obtaining Difference of Phase by Magnetic Shielding; Type of Tesla Single-Phase Motor;

Motors with Circuits of Different Resistance; Motor

with Equal Magnetic Energies in Field and Armature; Motors with Coinciding Maxima of Magnetic Effect in Armature and Field; Motor Based on the Difference of Phase in the Magnetization of the Inner and Outer Parts of an Iron Core; Another Type of Tesla Induction Motor; Combinations of Synchronizing Motor and Torque Motor; Motor with a Condenser in the Armature Circuit; Motor with Condenser in One of the Field Circuits; Tesla Polyphase Transformer; A Constant Current Transformer with Magnetic Shield Between Coils of Primary and Secondary.

### Part II — Tesla Effects with High Frequency and High Potential Currents

Introductory — The Scope of the Tesla Lectures; The New York Lecture. Experiments with Alternate Currents of Very High Frequency, and Their Application to Methods of Artificial Illumination, May 20, 1891; The London Lecture. Experiments with Alternate Currents of High Potential and High Frequency, February 3, 1892; The Philadelphia and St. Louis Lecture. On Light and Other High Frequency Phenomena, February and March, 1893; Tesla Alternating Current Generators for High Frequency; Alternate Current Electrostatic Induction Apparatus; "Massage" with Currents of High Frequency; Electric Discharge in Vacuum Tubes.

### Part III — Miscellaneous Inventions and Writings

Method of Obtaining Direct from Alternating Currents; Condensers with Plates in Oil; Electrolytic Registering Meter; Thermo-Magnetic Motors and Pyro-Magnetic Generators; Anti-Sparking Dynamo Brush and Commutator; Auxiliary Brush Regulation of Direct Current Dynamos; Improvement in Dynamo and Motor Construction; Tesla Direct Current Arc Lighting System; Improvement in Unipolar Generators.

### Part IV — Appendix on Early Phase Motors and the Tesla Oscillators

Mr. Tesla's Personal Exhibit at the World's Fair; The Tesla Mechanical and Electrical Oscillators.

# Tesla Coil Secrets!

## TESLA COIL SECRETS

by R. A. Ford

Be the first on your block to blast your neighborhood with high voltage! Shock the socks off your friends and relatives! Zap those pesky cats digging in the garbage can! Make people think you really are building a Frankenstein monster in your basement!

As you know, a Tesla coil is a high voltage transformer. Nikola Tesla used it at the turn of the century to generate lightning bolts and to investigate the wireless transmission of electrical power.

This fascinating book is not really a how-to-build book. Actually, an avid researcher who has built several coils and has accumulated articles, clippings, notes, and bits-and-pieces over the years has opened up his scrapbooks to us.

You'll see all the interesting hints, plans, and wiring diagrams gleaned from early magazines that ceased publication decades ago along with formulas, notes, and observations he believes are important for building powerful coils. Many of the old articles are so detailed that you can probably use them to build a powerful experimental coil. There are notes on one machine the could kick out five foot lightning bolts!

If you're really into Tesla coils, you may have seen a few of these clippings already. But I'll bet there are others you haven't seen. You'll get info on rotary spark gaps, anti-kick-back devices, Leyden jar capacitor construction, conical Tesla coils, Oudin coils, and suggestions on research into wireless power transmission, plant growth stimulation, medical uses, and more.

Many of the reprinted articles are fuzzy and a few hard to read. Most have been enlarged to bring out the construction details, and have been



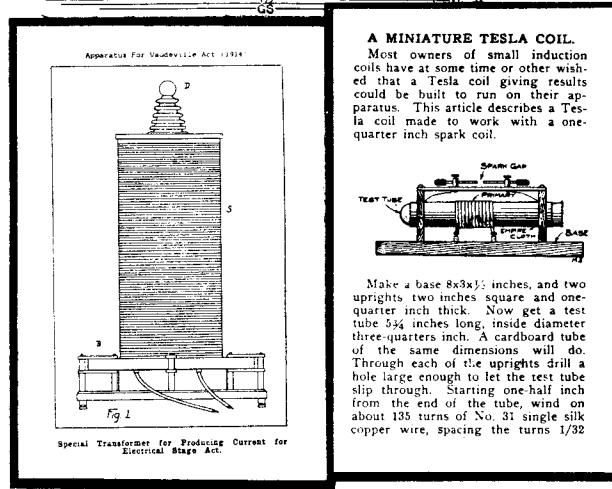
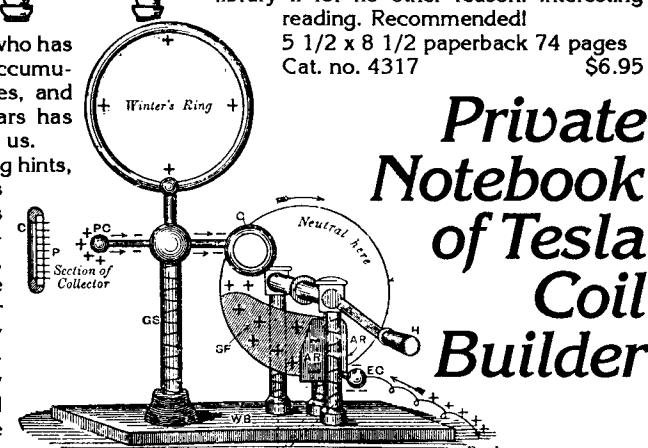
reprinted in their entirety. The difficult searching has been done. You can spend your time building and experimenting.

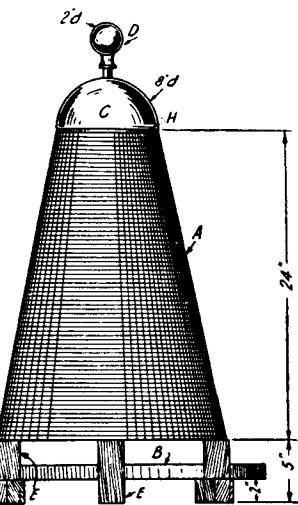
Be warned! You'll be working with high-voltage high-frequency devices from another era. Tesla coils can be very dangerous. But maybe you can be the one to rediscover the secrets

Tesla didn't have time to pursue or reveal.

Rare info! Too bad the book isn't ten times bigger. Get a copy for the reference library if for no other reason. Interesting reading. Recommended!

5 1/2 x 8 1/2 paperback 74 pages  
Cat. no. 4317 \$6.95





The Very Best from the

# ELECTRICAL EXPERIMENTER

The Very Best From  
THE ELECTRICAL  
EXPERIMENTER 1916-1917  
anthology by  
Lindsay Publications Inc

You can go back to read the very best articles from one of the earliest hobbyist electronics magazines published. Gernsback's Electrical Experimenter was filled with basic information, ads for early equipment, and most importantly how-to projects designed to be built from the most primitive materials.

Readers learned how to build unusual crystal set receivers with unusual detectors, high power wireless sets, and all the equipment that went into their construction. Today, you buy electronic equipment, put batteries in it, and turn it on. Back then you built your batteries!

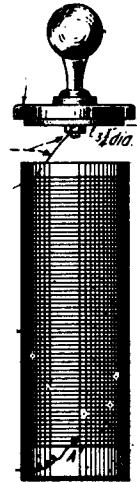
You'll find how-to articles on high voltage Tesla coils, induction coils, spark gap construction, batteries, detectors, water power systems, selenium cells for experimenting with primitive television systems, and more.

You get theoretical papers by MD's describing how new electrical equipment would revolutionize medicine. You get history on Fessenden and Tesla. You'll learn how to measure capacity, and much more.

You get the very best articles from this two year span, and by best we mean plans and information that is very difficult to find today. Many articles that cover the basics of electricity were omitted because you can find comparable material in modern magazines. Some plans were omitted because they were not unusual enough, such as motor and dynamo plans. You can find such plans in many old books.

What you will find is solid, interesting and useful information. Be careful,

**1916-1917**

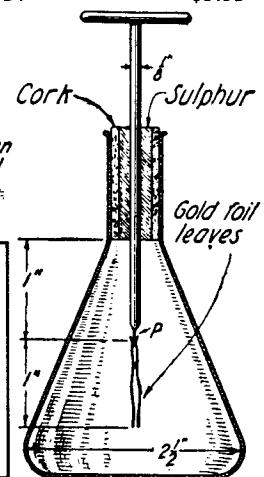
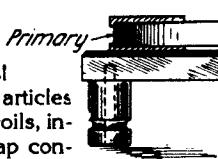


though! Some of this info is downright dangerous. You can get yourself electrocuted. You can give you and your neighbors cancer if you build and operate an X-Ray machine. Be very careful.

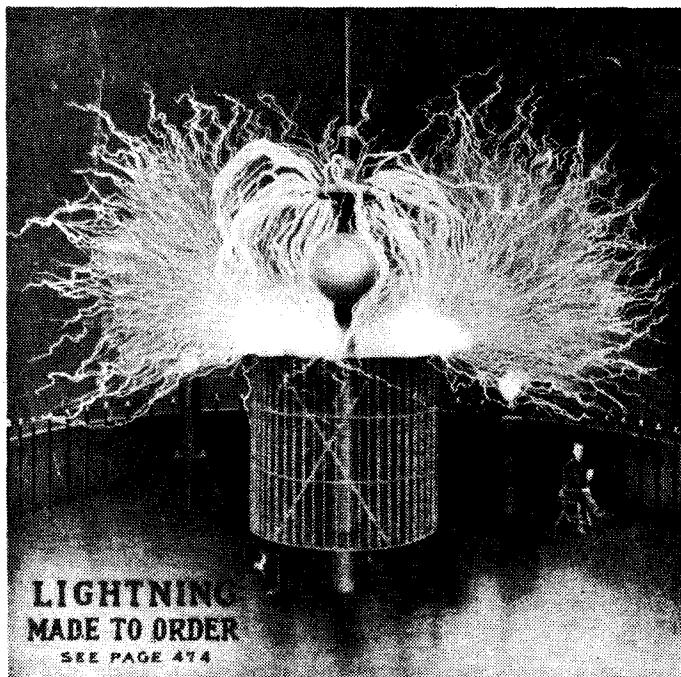
This is a great collection of rare material — something you should have in your reference library. Wall-to-wall illustrations! Interesting reading. Order a copy! 8 1/2 x 11 paperback 108 pages

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You should know that most of the photographs in this book are not of the best quality. Poor originals, yellowed paper, oversized pages have combined to make the photographs "muddy". The drawings are very sharp, and most type is quite readable, but the photos leave something to be desired. All we can say is that we did the best job we could. See what you think.



**LIGHTNING  
MADE TO ORDER**

SEE PAGE 474

## CONTENTS

- Collin's Radiophone Arc Detector, Spark Gap, Hints & Tips
- Wrinkles, Recipes, Formulas
- Water Wheel Drives for Private Lighting Plants
- Construction & Use of the Gold-Leaf Electro-scope
- Marvels of Modern Physics (Electricity & Medicine)
- Vacuum Detector & How It Works
- A Small Static Machine
- Making Selenium Cells
- Giant 48" Spark Coil
- Rotary Spark Gaps
- High Frequency Alternator for Testing Crystal Detectors
- Chromic Acid Battery
- Construction of Wheatstone Bridge
- Lightning Made to Order
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- X-Ray Tubes for High Frequency Coils
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- Constructing a 1/4 KW High Frequency Oudin Coil
- Construction of a Laboratory Vacuum Pump
- Regarding Tesla & Oudin Coils
- How I Telegraph Pictures
- How to Use High Frequency Currents in the Treatment of Disease

# How to Build a 40,000 Volt Induction Coil

## How to Build a 40,000 VOLT INDUCTION COIL

by Walt Noon

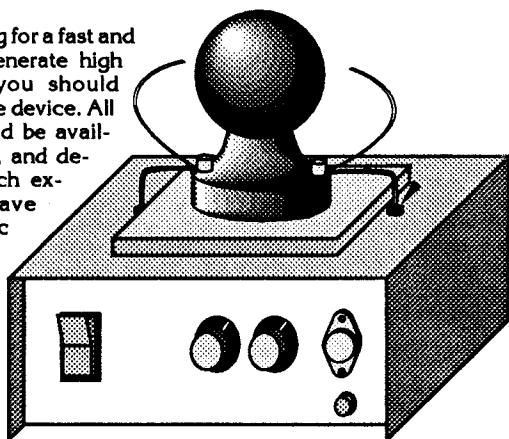
Are you looking for a fast and simple way to generate high voltage? Then you should build this nifty little device. All of the parts should be available in your area, and depending how much experience you have building electronic equipment, you should be able to bolt it together in a few hours.

As you already know, the ignition coil in your automobile is the modern equivalent of an old time induction coil. It is nothing more than a transformer that converts low voltage into very high voltage. The points in your automobile replace the old fashioned spark gap. Every time the points open, a pulse of DC current hits the coil like a hammer hits a bell. The ignition coil "rings" like a bell and produces a burst of high voltage. If you "hit" the coil fast enough, the ringing seems to be continuous.

Walt Noon's circuit here replaces the spark gap and the points with a low cost solid state circuit. The circuit takes 110 VAC out of your wall and converts it into a string of DC pulses. The pulses are sent to the terminals of an ignition coil that you can purchase at your local discount store. Off the high voltage terminal comes a solid 40,000 volts that can be used for a variety of experiments including plasma globes and Kirlian photography.

The circuit, based on a 555 timer integrated circuit, provides pulses with adjustable power and frequency. This allows you to easily tune the pulses to the natural resonant frequency of the coil which will significantly increase the output voltage.

You get drawings of the unit, parts list, circuit diagram, photos and assembly instructions for the coil. You are expected to have at least some experience building modern electronic

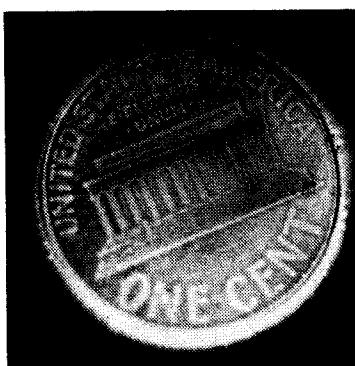


equipment with perf board. You get hints, tips and suggestions on where and how to make circuit modifications.

Probably best of all, Walt includes eight different experiments plus extensive details on Kirlian photography. He'll show you how to modify an inexpensive 35mm camera to take these unusual photographs in color and black and white. You also get six Kirlian photographs taken with the equipment he shows you how to build.

If you want to try your hand at high voltage experiments, this might be just the way for you to "cut your teeth", and it's something you'll be proud to show your friends. And it's a good way to literally shock the pants off them! Get a copy of this. It's unusual. It's well written. And it's inexpensive. You'll like it. 5 1/2 x 8 1/2 booklet 24 pages

\$4.95



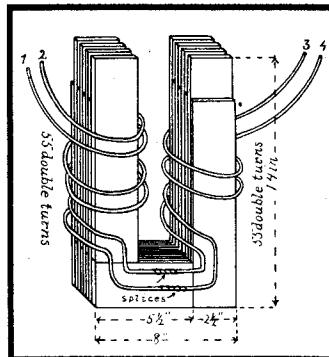
## ELECTRICITY AT HIGH PRESSURES AND FREQUENCIES

by Henry L. Transtrom

reprinted by Lindsay Publications

This off beat book on high voltage appeared in 1913 and was revised again for publication in 1921. It has no table of contents because, I guess, the chapters have no names. It does have a list of illustrations indexed in the beginning of the book in alphabetical order! There appear to be 139 illustrations.

The entire first part of the book covers electrical theory on electricity, how it is produced by generators, ideas of induction, ampere-turns, frequency and the phase shift that occurs through reactive elements and much more. This isn't heavy stuff — practical theory that builders can use. You'll find the explanations are translations of "heavy" theory in electrical engineering texts. This is great material for the experimenter in induction coils, Tesla coils, Oudin coils, and other lightning bolt generators.



## Electricity at High Pressures & Frequencies

You won't find much how-to, but you will find details about existing equipment, how it works, simple calculations on performance, and some remarkable photographs of experiments that can be performed with a lightning bolt generator.

Chapter 13 on page 165 talks about the fact that Tesla, Fessenden and others have not been able to generate frequencies over 100,000 Hertz (cycles per second). Then they show you a Fessenden alternator driven by a 10 hp DC motor through gears that revolves at 20,000 rpm that kicks out over 2,000 watts of high-frequency high voltage!

You'll then read about capacitive machines. You'll see a device that develops 15,000 volts between two ends of 25 feet of No. 4 aluminum wire! Another photo shows a 10 volt 5 watt Mazda lamp is lit to full brightness although apparently short circuited by 6 inches of No. 00 copper wire! It shouldn't work, but it does. You'll see a high-frequency transformer that throws heavy 60" sparks between its terminals. Other photos show unusual high voltage experiments. The last 20% of this book is worth the price of the entire book!

This is another must have for the high-voltage library — a book that is very difficult to find in used book stores and so on. But now everyone can afford to have a copy. Get a copy. You'll like it. Excellent book! 5x7 paperback 264 pages

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**Plans & Instructions to Build the  
"MINI" TESLA ELECTRIC SPARK COIL**  
by John F. Nuyen

It's a small booklet, typewritten, and is not all that professionally produced. After all, Nuyen is not a slick author/publisher. He's a high voltage experimenter. In other words, this is a set of plans for a working Tesla coil written by someone who has done it. It works. And you'll find a photo of the coil on the cover.

This coil uses a primary of 8 gauge wire driven by a Model-T hum coil which can be purchased from some auto supply houses (suggested sources provided.) The primary consists of 34 gauge wire wound around a 16" length of PVC tubing.

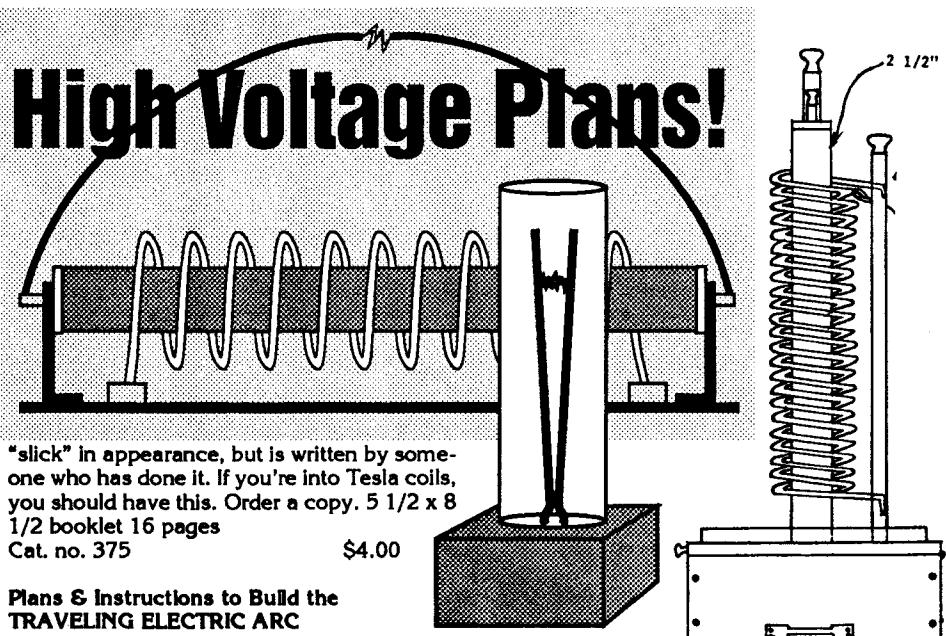
I must warn you that the how-to is not extremely detailed, but it's still quite good. Any Tesla coil experimenter would do well to have these plans.

This is a home-grown coil and a home-grown publication that you won't find in any bookstore. Look it over carefully. Brief, but fairly priced. Buy a copy and start building. 5 1/2 x 8 1/2 booklet 16 pages  
Cat. no. 374 \$4.00

**Plans & Instructions to Build the  
HIGH FREQUENCY ELECTRIC COIL**  
by John F. Nuyen

This is actually a Oudin coil (very similar to the Tesla coil) that like the coil above is driven by a Model-T hum coil and an 8 gauge primary. The secondary is wound with 34 gauge magnet wire around paper tubes.

You'll find this is brief, typewritten, and not



"slick" in appearance, but is written by someone who has done it. If you're into Tesla coils, you should have this. Order a copy. 5 1/2 x 8 1/2 booklet 16 pages  
Cat. no. 375 \$4.00

**Plans & Instructions to Build the  
TRAVELING ELECTRIC ARC  
(JACOB'S LADDER)**

by John F. Nuyen

You've seen them — those two wires sticking up in the air in a "V" shape with a spark that starts at the bottom and slowly travels upward. You've seen them in the "mad scientist" movies. (I sometime think my mother-in-law uses one to see while she puts on her makeup!)

The ladder is easy to build and quickly goes together. It makes an impressive science fair project, although I'm not sure exactly what sci-

entific use there is for it. Maybe you can use it to terrify your neighbors, or the IRS agent when he calls.

Another typewritten booklet by someone who has done it. Get a copy — for your reference library, if nothing else. 5 1/2 x 8 1/2 booklet 16 pages  
Cat. no. 376 \$4.00

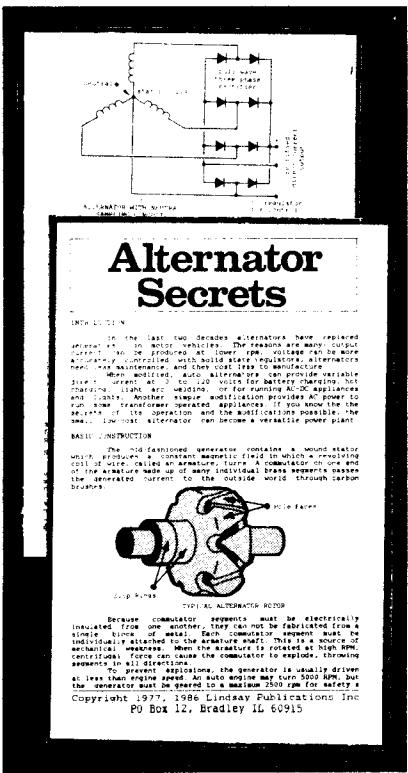
**ALTERNATOR SECRETS**

If you know the secrets of modification, you can get large amounts of power from a common auto alternator. You can build a portable powerplant driven by a gasoline engine to run brush-type power tools, lights, and AC-DC appliances at remote locations. You can hot-charge storage batteries, or even do light arc welding. Operation of the regulator is explained so that you can build a custom regulator, if needed, to provide regulated output voltages other than 12.

Learn how you can make almost an ordinary induction motor (like an old washing machine motor) put out 120 volts at 60 cycles without rewinding or internal rewiring. These secrets are worth the price of the booklet alone.

We've jammed a ton of information into 16 pages with small type to keep printing costs down so that we can keep the retail price the same as the old edition. Valuable, rare info! Get a copy. 5 1/2 x 8 1/2 booklet 16 pages  
Cat. No. 80 \$3.00

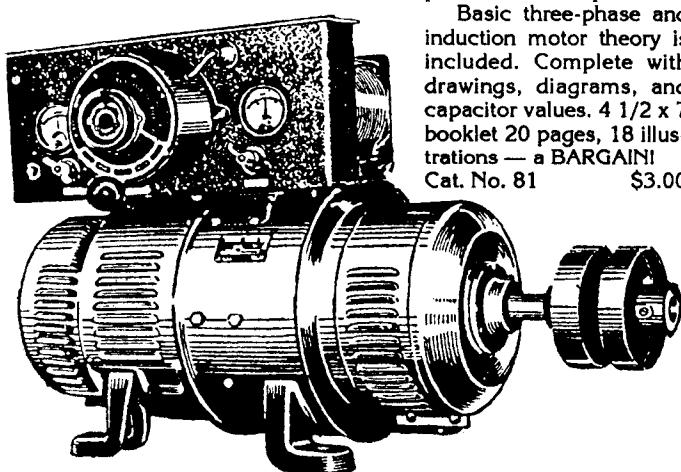
## Power from Alternators!



## Run Three Phase Motors on Single Phase Power

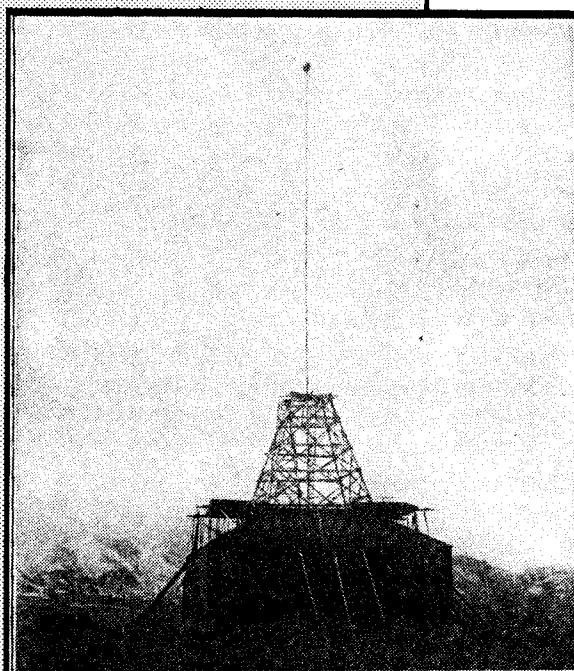
Yes! You can run three-phase motors on single-phase power using any one of three excellent methods. First, lathes, drill presses, and other machine tool motors can be run with the capacitor method. Second, the autoformer method (a technique you should buy rather than build) is useful for motors running under continuous full load. And finally you can run a whole shop full of three-phase motors from a single, easy-to-build dynamic converter! No rewinding is necessary. These methods are good to at least 150 hp and 220 volts! Low starting currents and excellent power factor are possible.

Basic three-phase and induction motor theory is included. Complete with drawings, diagrams, and capacitor values. 4 1/2 x 7 booklet 20 pages, 18 illustrations — a BARGAIN!  
Cat. No. 81 \$3.00



# Tesla's Experiments with Alternate Currents!

*Power transmission without wires: the London Lecture plus a 1904 magazine article on the Colorado Springs experiments! Rare book!*



Experimental Laboratory, Colorado Springs.

## EXPERIMENTS WITH ALTERNATE CURRENTS of High Potential & High Frequency by Nikola Tesla

"A lecture delivered before the institution of electrical engineers, London, by Nikola Tesla with an appendix by the same author on the transmission of electric energy without wire, reviewing his recent work, and presenting illustrations from the photographs never before published".

Quite a title! Quite a book! There's so much written and published about Tesla (and too much of it is pure garbage), that it is refreshing to have the inventor himself explain his experiments, theories, and plans. It's all here, every page from the original 1904 book — complete with unusual illustrations showing disruptive discharge coils, improved discharger and magnet, luminous discs, single wire and no wire motor, unusual electric lights for use with the high-frequency AC that is generated by the Tesla coil, and much more.

The last fourteen pages of the book is a reprint of Tesla's article from the March 5, 1904 issue of "Electrical World and Engineer" complete with photographs of the experimental apparatus at Colorado Springs and Long Island built to test the transmission of electrical power without wires.

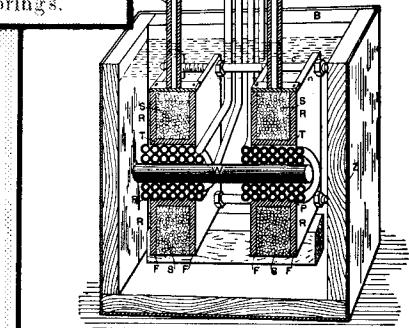


FIG. 3.—DISRUPTIVE DISCHARGE COIL.

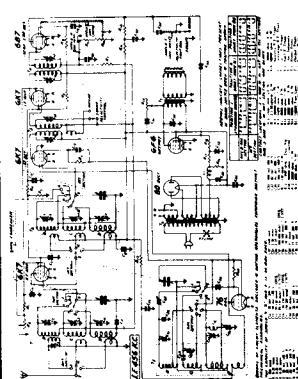
coil and other apparatus used in the experiments with the disruptive discharge this evening.

It is contained in a box B (Fig. 8) of thick boards of hard wood, covered on the outside with zinc sheet Z, which is

Anyone who studies Tesla, builds his coils, or wants to perfect the inventions that Tesla didn't have time to finish should have a copy of this book. The writings of Tesla himself should be the cornerstone of any Tesla library, and here is your chance to get your own copy of this now-rare book. Interesting reading. Historically important. Get a copy.  
5 1/2 x 8 1/2 paperback 170 pages.  
Cat. No. 4392 \$9.95

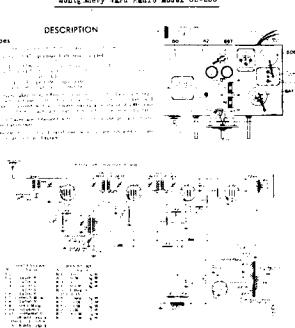
# Old Radio Diagrams!

MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS  
Ward Model 62-165, 62-207, 62-210, 62-216



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MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS  
Ward Model 62-223



109

## Most Often Needed 1926-1938 RADIO DIAGRAMS and Servicing Information compiled by M. N. Beitman

Reprinted from out of the past is this great collection of wiring diagrams and service tips on most of the radios likely to be encountered by a radio serviceman in 1938.

You get not only the circuit diagram but in many cases parts numbers, voltage measurements at critical points, chassis drawings, alignment specs for superheterodynes, and more.

You'll find mostly diagrams for superhets, but there are a few regens from the "old days". Many receivers have shortwave bands. And although I consider myself at least somewhat knowledgeable about old radio technology there are tube numbers used here that I've never even heard of!

If you collect radios or like to build old sets using old parts, this is for you. You'll find everything from Atwater-Kents to Zenith radios listed. A valuable reference. Good stuff. Consider it carefully. 8 1/2 x 11 paperback 240 pages  
Cat. no. 362 \$11.95



HOW TO BECOME A RADIO AMATEUR (1930)  
by the American Radio Relay League

reprinted by Lindsay Publications

In 1930 thousands of people were not only fascinated by the arrival of broadcast radio, but by the magic long distance communication possible through short-waves. This simple booklet was intended to draft many of those people into the hobby of ham radio.

Here you'll discover the amateur bands as they then existed, how to learn Morse code, how to build a two-tube (UV-201-A) bread board regenerative receiver for the 80 meter band, an oscillating transmitter using a UX-210

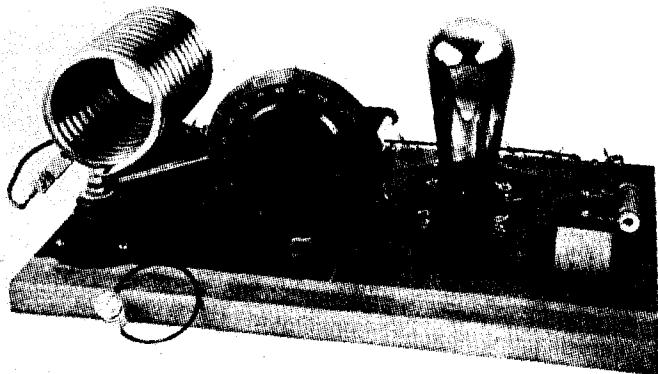
# How to Become a RADIO AMATEUR 1930

## Build a 1930 Ham Radio Station!

tube, an AC power supply, tips on setting up the radio station, and finally how to operate it.

Not only is this great nostalgia, it is also quite practical should you want to build a copy of the regenerative receiver. You may want to build a copy of the transmitter for display or occasional demonstration, but you probably wouldn't want to use it on the air.

Discover 1930 ham radio. Build early equipment. Lots of fun reading. Low cost. Get a copy. 8 1/2 x 11 booklet —32 pages Cat. no. 20226 \$2.95



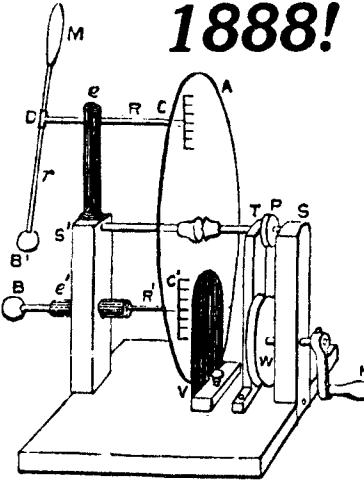
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1888!

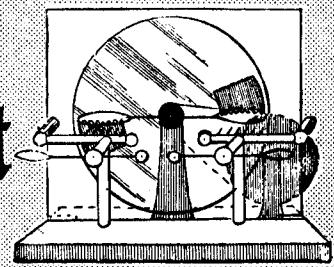
ELECTRICAL INSTRUMENT-MAKING for Amateurs  
by S. R. Bottone  
reprinted by Lindsay Publications Inc

In 1888 when this volume first hit the bookstores, electrical instruments could be anything from simple Leyden Jar capacitors and static electricity machines to dynamos and telephones, as well as ammeters, voltmeter and galvanometers.

With this as your guide you can go back a hundred years and imagine what it must have been like to be experimenting right at the cutting edge of technology. You can build your own batteries



# Electrical Instrument Making for Amateurs



from scratch, use them to run a shocking coil while you monitor the current draw with homemade meters!

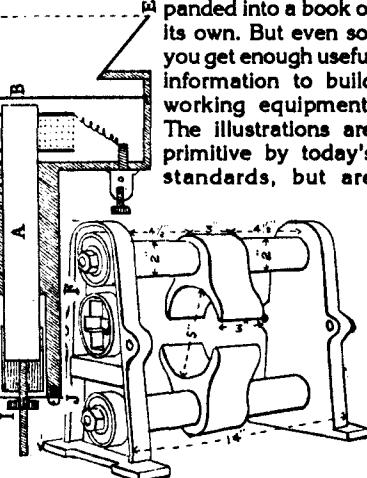
You get basic information on materials, soldering, and working glass. Then you build pith ball and gold leaf electroscopes, a Coulomb torsion balance, and Volta's electrophorus static generator. You'll learn how to take a sheet of glass and cut a circle from it, drill a hole in the center and use it to build Bertsch's high-voltage static generator, Carre's Dielectric machine, a Holtz machine, and a Wimshurst influence machine. Any one of these machines is powerful enough to shock the underwear off Aunt Anna-belle!

You'll learn how to build a medical coil that produces a 1/2" spark, or a 1" spark induction coil. With a powerful magnet you can make a shocking machine which appears to be little more than a simple magneto. Build a uni-direction current machine (a motor), a dynamo, an ammeter, a voltmeter, a galvanometer, batteries, a single fluid cell, a double fluid cell, and using these two basic battery configurations how to create powerful batteries using chemicals from zinc chloride and sulphuric acid to sal ammoniac

and potassium dichromate which are more commonly known as the Daniell, Bunsen, Smee, Walker cells and others.

Then you get simple plans so that you can build a working electrical telephone, the newest rage a hundred years ago.

Obviously so many topics are covered in such a small book that the number pages devoted to each topic are necessarily limited. Any one topic could really be expanded into a book of its own. But even so, you get enough useful information to build working equipment. The illustrations are primitive by today's standards, but are



very informative nonetheless.

This is a fascinating book you're sure to enjoy. Lots of valuable information at a price far below what you would have to pay for a now-rare original copy. Get a copy. Worth having. 5x7 paperback 183 pages  
Cat. no. 4929 \$9.95



# Incredible Electronics Textbook!

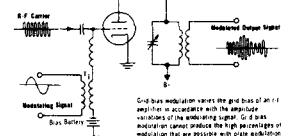
6-86 MODULATORS

## the grid-bias modulator

The modulating signal is frequently applied to r-f amplifiers at the control grid. This is called grid-bias or low-level modulation. Effectively, grid bias modulation causes the grid bias of the r-f amplifier to vary in accordance with the modulating signal. As the modulating signal varies, so does the grid bias, and since the grid bias is negative, this varies the effective input level of the r-f signal. The power output of the amplifier therefore follows the amplitude variations of the modulating signal.

A basic grid-bias modulator circuit is shown. The modulating signal is coupled by transformer  $T_1$  to the grid circuit of the r-f amplifier so that it is in series with the grid bias battery. As the modulating signal varies, so does the grid bias, and since the grid bias is negative, this varies the effective input level of the r-f signal. The power output of the amplifier therefore follows the amplitude variations of the modulating signal.

The modulator circuit is operating as a class A circuit, which is conducting at all times. The type of modulator must be operated class A or class AB, so that the modulating signal does not cause the tube to turn off or saturate, otherwise, part of the modulating signal will be clipped, causing distortion.



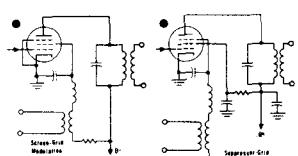
Since grid voltages can be used in space, we can use a transmitter. Grid bias, in large enough excessive distortion, must be modulated.

MODULATORS

6-87

## other AM modulators

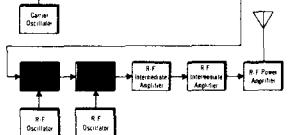
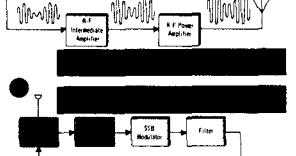
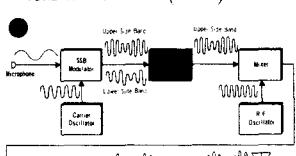
Although grid and plate modulation are the two most widely used methods of producing AM signals, other methods, in which the modulating signal is applied to the screen grid, the suppressor grid, or the cathode, are also used. Typical circuits for these three modulation methods are shown.



AM TRANSMITTERS

2-55

## the single side-band AM transmitter (cont.)



ELECTRONICS 1-7 2nd Edition  
edited by Harry Mileaf

I've seen a thousand electronics books from the oldest to the newest, and in my opinion, this one of the very best I've seen. If you're new to electronics or just need a great reference for those areas in which your knowledge is weak, then this book is for you.

What I like is the simply written, yet detailed and complete text and the clear informative illustrations that drive home the lessons being taught. Some books race through complex topics and don't really explain themselves. Not

# You'll find almost everything!

DC signals  
AC signals  
modulation  
side bands  
side-band modulation  
AM  
FM  
pulse modulation  
multiplexing  
television  
stereo FM  
navigation signals  
facsimile  
mixing frequencies  
waveshaping  
harmonics  
power supplies  
amplifiers  
modulators  
demodulators  
limiter  
separators  
AFC circuits  
AGC circuits  
counters  
gates  
traps  
feedback circuits  
AM transmitters & rcvs  
FM transmitters & rcvs  
UHF rcvs  
RDF finders  
vacuum tubes  
diodes  
triodes  
triode operation  
load lines  
bias tetrodes  
pentodes  
phototubes

magnetrons  
klystrons  
semiconductor theory  
PN diode  
junction capacitance  
zener diodes  
tunnel diodes  
junction transistors  
gain  
transistor circuits  
bias & stabilization  
oscillation  
frequency response  
thyristors  
field-effect transistors  
FET circuits  
integrated circuits  
rectifiers  
filters  
load resistors  
voltage dividers  
voltage multipliers  
phase splitters  
RF amplifiers  
frequency-multipliers  
LC oscillators  
crystal oscillators  
RC sine-wave oscillators  
relaxation oscillators  
mixers  
converters  
discriminators  
gating circuits  
counters circuits  
limiter circuits  
antennas  
and much, much  
MUCH more!

here! The authors take their time and really teach.

Originally, this book was issued as seven paperbacks, no doubt for schools. Here you get all seven books in a single hardcover volume. Yes, it's expensive, but it's cheaper than buying the individual volumes, and you definitely get your money's worth. The table of contents alone, is eighteen pages long!

This is not a how-to projects book. This is a textbook that teaches the electronic principles behind the equipment you buy and build. You'll learn the complex terms, how components work by themselves and together to build up complex systems.

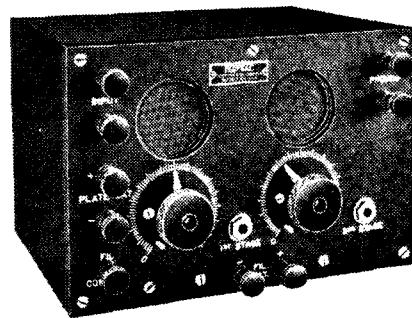
Again, this one of the very best electronics course I've seen. If you need just one good electronics book then this is it. There are many other good ones on the market, but I'd put my money on this one any day. (I wish I had published it!) Great book. This should be on every electronics-buff's reference shelf. Order a copy! 6x9 hardcover almost 1000 pages wall-to-wall illustrations

Cat. no. 363

\$49.95

# Radio of the 1920's!

Incredible collection of ads, photographs, magazine articles!

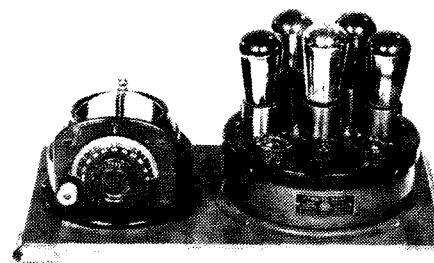


RADIO MANUFACTURERS OF THE 1920's  
by Alan Douglas

If you love old radio equipment like I do, you'll really enjoy this. This, the first of several volumes, covers apparatus manufactured by A-C Dayton through J. B. Ferguson.

You get a big book of wall-to-wall illustrations of home console radios, crystal sets, regenerative sets sold to receive messages from MacMillan's North Pole expedition in 1925, ads for parts, magazine articles taking you inside radio factories and much more.

This is nostalgia, rather than how-to. But! If you're building old circuits, doing restorations, or just want to build a radio that looks old, you'll find more ideas than you can ever use. You'll like this "time



machine" back to the 1920's when radio was taking off.

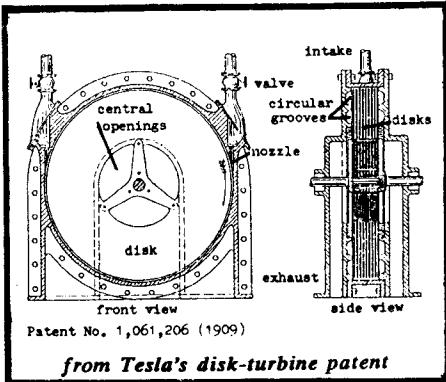
As an old radio buff, I wish I had published this. I think you'll like it, too. 8 1/2 x 11 paperback 225 pages

Cat. no. 356

\$19.95

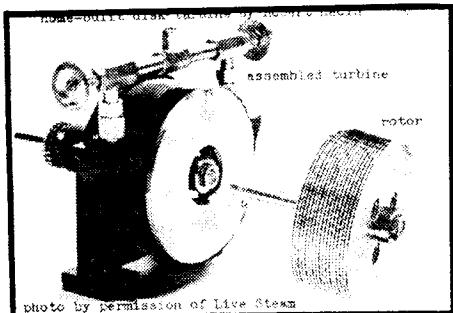
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# TESLA'S LOST Inventions!



TESLA: The Lost Inventions  
by George Trinkaus

"Here are the suppressed inventions of Nikola Tesla all in one place rendered in clear English and in 42 illustrations. Tesla was famous at the turn of the century for inventing the alternating-current system still in use today. But his later inventions, documented in some 30 U.S. patents between 1890 and 1921, have never been utilized as Tesla intended despite their obvious potential for advancing in fundamental ways the technology of modern civilization. Among these lost inventions: the disk-turbine rotary engine, the tesla-coil electric energy magnifier, high-frequency lighting systems, the magnifying transmitter, wireless power, and the free-energy receiver." —from the front cover.



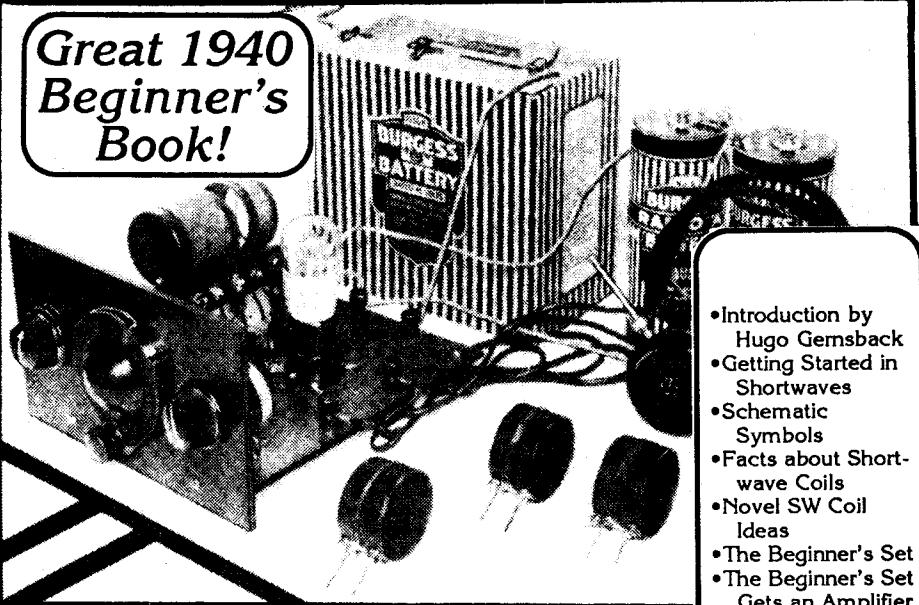
Like Trinkaus's other Tesla book, the only major criticism that can be leveled here is that the chapters are too short. On the other hand, even if each topic were expanded into a full-blown book, you would probably find Tesla so interesting that your curiosity would still not be satisfied.

Interesting, unusual information, especially if you're just beginning your study of Tesla. Fairly priced. 8 1/2 x 7 booklet 34 pages

Cat. no. 748 \$5.95

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## Great 1940 Beginner's Book!



## Shortwave Beginner's Book

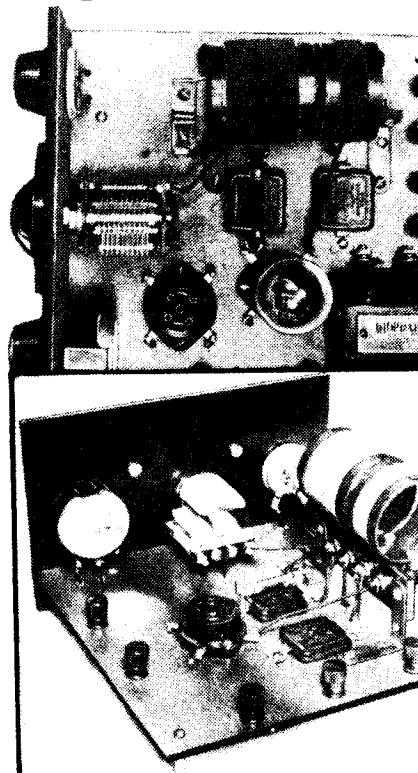
SHORTWAVE  
BEGINNER'S BOOK  
by Radio & Television  
Magazine  
reprinted by Lindsay  
Publications

The full title is "Short Wave Beginner's Book including a complete course of instruction in shortwave; details for making shortwave aerials; a complete beginner's set; coil winding data; operating kinks." And it's 36 pages of dynamite ideas from 1940.

Short Wave Beginner's Book was targeted for the raw beginner. It explains everything in detail, showing the reader not only the schematic but diagrams of what wire to hook where. Even templates are provided for drilling the chassis. Very little is left to the imagination.

True, the sets are not overly sophisticated, but they're a great place to start. For instance the beginner's set uses a single 30 vacuum tube with a 45 volt B battery. In the next chapter another 30 tube is added as an audio amplifier.

You get excellent discussions on topics such as coupling amplifier circuits, insulators



- Introduction by Hugo Gernsback
- Getting Started in Shortwaves
- Schematic Symbols
- Facts about Shortwave Coils
- Novel SW Coil Ideas
- The Beginner's Set
- The Beginner's Set Gets an Amplifier
- Smoothing Up the Regeneration Control
- New Kinks for the SW set
- Which Regeneration Scheme?
- Tuning the Short Wave Receiver
- How to Make Worth-While Audio Amplifiers
- Short Wave Operating Hints
- Coupling the RF Stage to Detector
- Audio Amplifiers for SW Sets
- Methods of Coupling to Speakers
- Aerials for Short-Wave Receivers
- Good Antenna Design
- Some Things You Don't Know About Aerials
- Learning the Code
- Home-Made Antenna Coupling Condensers
- A Panel Mounting SW Coil Assembly
- A Meter-Kilocycle Conversion Chart

that can be used on shortwave antennas, and code practice oscillators. And everything is nicely illustrated.

Here's another fun old-time shortwave radio book you should have. And it's reasonably priced! It's another MUST for your old time radio book collection. Order a copy. 7x9 booklet 36 pages

Cat. no. 4961

\$4.95

# Electrical Recreations

William Peck's  
**ELECTRICAL RECREATIONS**  
reprinted by Lindsay Publications

Go back to 1860 and discover static electricity experiments designed to inform and entertain students studying physics in schools and academies.

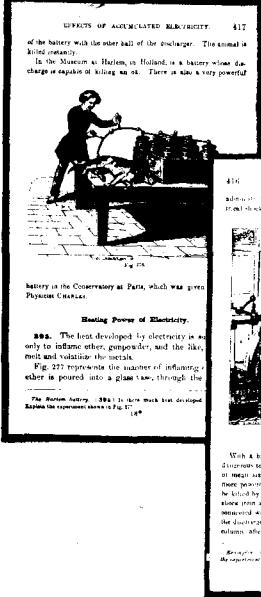
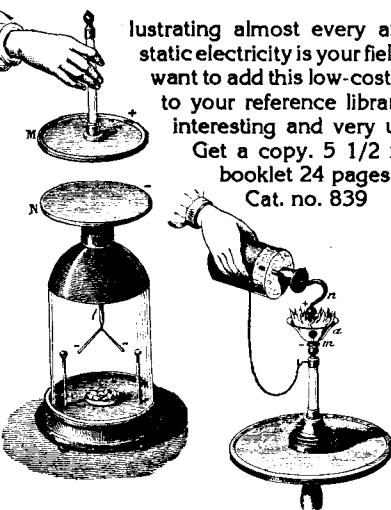
If you've collected other early static electricity works, you'll find some of this to be old hat. But other parts will be new and quite interesting.

Learn about the electrical chime, an electrified puppet, the electrical wheel, the electrical egg, the electrical square, the electrical cannon, the condenser of Epinus, using the condenser, slow and fast discharge of the condenser, the Leyden jar, a battery of Leyden jars, the condensing electrometer, electrocution of dogs!, heating power of electricity, and the mechanical effects of electricity.

You'll find fascinating old time wood cuts ill-

lustrating almost every article. If static electricity is your field, you'll want to add this low-cost booklet to your reference library. Very interesting and very unusual.

Get a copy. 5 1/2 x 8 1/2  
booklet 24 pages  
Cat. no. 839 \$3.25



## EDISON'S LAB ASSISTANT REMINISCES...

### MENLO PARK REMINISCENCES Vol 1

by Francis Jehl

Great Book! Not only do you get the inside scoop on the electric light, the phonograph, mimeograph, the telephone (Bell beat Edison to the patent office by one day), but you get the anecdotes that proves how brilliant and bizarre Edison really was. This was a guy that I would have liked to met, a guy who chewed tobacco, spit on the floor, told vulgar stories and was known for his creativity and sense of humor - a true "character".

From the backcover:

"In this revealing book, a former laboratory assistant to Thomas Alva Edison (1847-1931) recalls life in the great inventor's laboratory and workshops at Menlo Park..."

Eighteen years old when he first arrived in Menlo Park in 1879, Francis Jehl subsequently witnessed a flood of ingenious inventions...

Offering exceptional coverage of the technical aspects of Edison's work, this profusely illustrated volume will also fascinate the general reader. (The author's

Francis Jehl  
**MENLO PARK REMINISCENCES**  
Volume One



*Memories of the exciting Menlo Park years...*

account of Edison playing with his newly developed phonograph is delightful!... Nearly 400 photographs and illustrations depict Edison and his assistants; Menlo Park; Edison's laboratory, inventions and instruments; the restored sites at Henry Ford Museum & Greenfield Village; and more....

Brimming with anecdotes and intimate first-hand observations, Menlo Park Reminiscences provides a really lively picture of Edison at work'..."

If you're into the history of technology, or you would really like to "meet" one crazy, talented character, then you should have this book. Edison would have devoured this catalog had the two existed at the same time. He was one of us. This and the Josephson biography will introduce you to Edison. Fascinating book. Get a copy.

5 1/2 x 8 1/2 paperback 448 pages 113 illustrations  
267 photos  
Cat. no. 377

\$13.95

## TOM EDISON!

### A Classic Biography

Edison- A Biography  
by Matthew Josephson

Edison - the inventor's inventor. Everyone has heard of him. But are all the wild stories we've heard really true? What kind of a guy was he?

Edison never really attended school. He was taught by his mother. (His father was a strange man!) Edison's first adult job was as a telegrapher which later led him to invent repeater relays, automatic telegraphs, circuits for sending several different telegrams in different directions over the same wire, and on and on. He even got himself in the middle of a bitter fight between the robber baron Jay Gould and the Western

Union monopoly - talk about dirty pool!

To get away from New York, Edison built a lab in Menlo Park, New Jersey. And for ten years excited the world with new inventions from the phonograph and electric light to the electric locomotives and even parts of the telephone (Alexander Graham Bell beat Edison to the patent office by just days.)

By the time Edison went back to New York to build the electric system, he was already a millionaire (at 28). Then came a new lab in West Orange, a second wife (after his first died), moving pictures, an ore separator, an alkaline battery and much more.

Here's the inside scoop on the man who is considered the first professional inventor. You'll find that Edison didn't have time to pursue all his ideas, and that there

are probably ideas and inventions waiting to be resurrected somewhere in the more than 1000 patents Edison held.

Read about this incredible guy. Edison's wife finally put her foot down when the inventor turned 75 and told him he had to work fewer hours - so he cut back to 16 hours a day!

Get a copy of this. If you enjoy technology, inventing, collecting, or reading just about any other book in this catalog, you'll find this biography quite interesting. It's a little slow reading in places, but it's loaded with details that will tell you the truth about what happened and why. After you read this, you can better appreciate who Edison was and why this country and the world is the way it is today. Excellent book. Fairly priced. 6x9 paperback 512 pages with photos  
Cat. no. 727 \$10.95



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# Static Electricity!

## STATIC ELECTRICITY

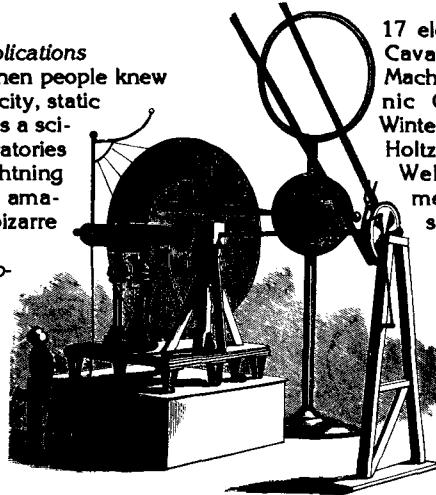
by J. H. Pepper

reprinted by Lindsay Publications

Back in the 1880's when people knew little about current electricity, static or frictional electricity was a scientific curiosity in laboratories and parlours. Giant lightning generators were built by amateurs and educators and bizarre experiments performed.

From Pepper's "Cyclopaedic Science Simplified" we've reprinted the chapter entitled "Electricity, Frictional or Statical", one of the best textbook discussions we've found yet.

You get a detailed discussion of electroscopes,



17 electroscope experiments, Cavallo's Cylinder Electrical Machine, the Royal Polytechnic Great Plate machine, Winter's electrical machine, the Holtz machine, the Electric Well experiment, experiments in induction, charge storage techniques, lengthy discussion of Leyden jars, the Leyden battery, followed by another thirty experiments including Cuthbertson's Balance Electrometer, the electric bomb, Harris's thundercloud needle, and a couple of machines for generating

## Dozens of Unusual Experiments!

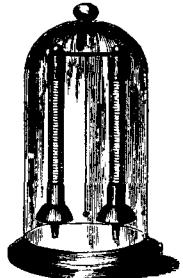
high voltage with a steam jet! And there is much more.

Although this is not really a cookbook for building equipment, the wood engravings are quite detailed, and the text describes the equipment thoroughly enough that you could probably build the devices without great trouble. This is a great source for unusual science fair projects.

If you like to explore old scientific principles, build unusual apparatus, or just impress your friends, consider a copy of this unusual book. I think you'll like it. 5 1/2 x 8 1/2 paperback 88 pages

Cat. no. 4783

\$5.95



## Short Wave Radio QUIZ BOOK AND KINKS

by Short Wave & Television Magazine  
reprinted by Lindsay Publications

Short Wave & Television Magazine frequently published reader's questions and answers as well as small "fillers" of circuits, hints, tips and kinks. In 1938 a collection of these tiny articles was reissued in this 64 page book.

You'll get tips on winding coils, bending chassis, soldering phone tips, making a lightning arrestor from a spark plug, plans for a rf amplifier, a 2 tube SW set, another for a motorcycle, a 2 tube battery set, a 6.3 volt 3 tube, and on and on. There are hundreds of hints and kinks here!

You'll wish the stories were longer, but there are so many great ideas (some a little ridiculous) that you won't complain. It's fun reading. I like it, and I think you will, too. Order a copy. 5 1/2 x 8 1/2 paperback 64 pages

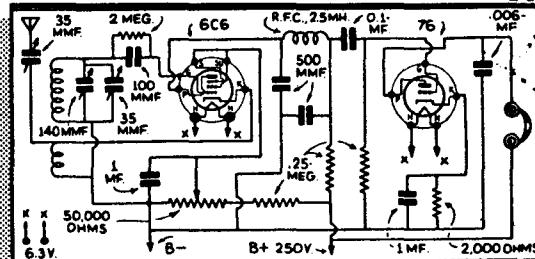
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## SHORTWAVE QUIZ BOOK & KINKS!

### CONTENTS

- SW Receivers for 110 VAC Operation
- AC-DC Receivers
- Battery Type SW Receivers
- Short-Wave Antennas
- Antenna Hints
- Short-Wave Converters
- Pre-Amplifiers
- Miscellaneous SW Hints
- Beat Oscillators
- Power Supplies
- Audio Amplifiers
- A Folded Doublet to Save Space
- How to Get Best DX
- Simple 1-Tube Booster
- A Twin Pentode Receiver for the Beginner
- Kinks for SW "Fan"
- Easy-to-Build Short Wave Transmitters
- Code Practice Oscillators
- 5-Meter Receivers
- "Ham" Kinks

### Fantastic 1938 Collection of Hints & Tips



## 1928 RADIO TROUBLE-SHOOTING

by Enno R. Haan  
reprinted by Lindsay Publications

"A Complete and Practical Work on Radio-Receiver Troubles and How to Cure Them".

That description might sound somewhat bland, even dull, but this book is anything but that. When you open the covers of Radio Trouble-Shooting, you'll discover beautiful illustrations, dozens of schematics, many charts and diagrams detailing radio technology not seen in decades.

Chapters include tools and instruments, uncontrollable troubles and interference, antenna-circuit troubles, batteries and chargers, battery eliminators and their troubles, tube troubles and their remedies, internal disorders in radio receivers, reproducer troubles and maintenance.

In 1928 radios were generally battery powered, so it's not surprising that everyone wanted a battery eliminator that could convert 110 volt AC into radio DC voltages. You'll find that numerous pages are devoted to batteries and eliminators, their care and repair.

You'll learn how to erect large outdoor antennas and connect smaller indoor loop antennas. Discover how to test tubes and reac-

## 1928 Radio Trouble-Shooting

### Early Troubleshooting Manual

tivate them. And you'll even find an incredible characteristic chart of rarely seen battery and AC tubes such as the Daven MU-6, the Schickerling MU-20, the DeForest DV-7, the Western Electric 205D and many others.

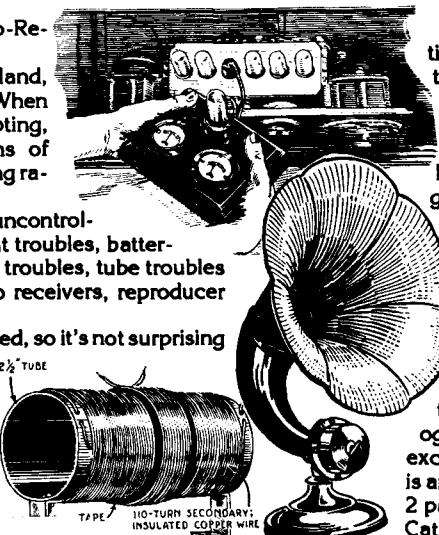
To cure internal disorders you'll have to know how to troubleshoot the tuning circuit, analyze grid circuit and plate circuit troubles, control regenerative reradiation, how to neutralize a neutrodyne, and even troubleshoot the state-of-the-art superheterodyne.

The chapter on reproducers seems quaint today. You'll learn how to care for headphones, how to eliminate B+ voltages from talking horn speaker circuits and old-time earphones.

This is fun reading with great illustrations throughout. You get a snapshot of early radio technology at a time when shortwaves were making radio exciting for everyone. Get in on the fun. Order a copy. This is an excellent early radio book worth having. 5 1/2 x 8 1/2 paperback 328 pages

Cat. no. 20102

\$14.95



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# NEON SIGNS

*Great How-To  
on Glass  
Blowing,  
Vacuzum  
Systems,  
High Voltage  
and more  
from 1935!*

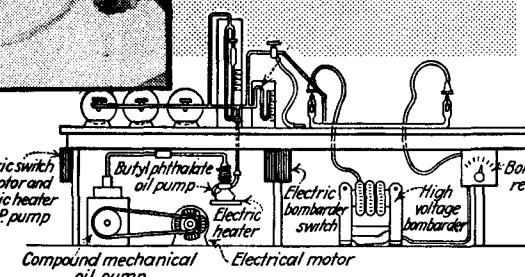
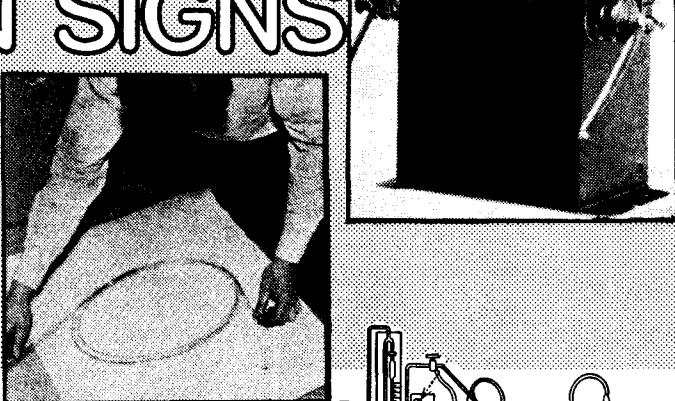
## NEON SIGNS

by Miller & Fink  
reprinted by Lindsay Publications

Sure. Equipment, techniques, and sign design have changed since this book first appeared in 1935, but not all that much.

Even if you're not interested in making neon signs, you'll find loads of useful information on rare gases, glass blowing, and vacuum systems that could be useful in experimental physics, high voltage, or even in building your own experimental vacuum tubes!

Chapters include the luminous tube, materials, electrical equipment, types of signs, designing the sign, glass bending, pumping systems, bombarding, filling, testing, aging, installation equipment, special applications, tricks of the trade and more!



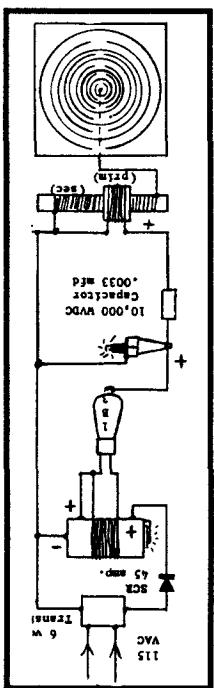
This is a quality straight-to-the-point book loaded with diagrams and photographs that you won't find just anywhere. It might be fun to make bizarre neon signs, repair "antique" signs, or just get into the trade. But even if that's not your goal, you'll find loads of unusual, interesting information. Consider this carefully. It certainly is NOT run of the mill. Order a copy. 5 1/2 x 8 1/2 paperback 288 pages  
Cat. no. 20340 \$12.95

# Lakhovsky Multi-Wave Oscillator!

LAKHOVSKY  
MULTIPLE WAVE  
OSCILLATOR  
HANDBOOK  
compiled by  
Thomas J Brown

Supposedly sometime before World War II, Russian experimenter Lakhovsky asked Nikola Tesla to help him design a high voltage generator that could produce electrical energy at many different frequencies simultaneously. A model of the machine was tested by physicians of the time who found that it not only had a 98% cure rate for terminal cancer, arthritis, and other "hopeless" diseases, but that it could rejuvenate plants and animals as well.

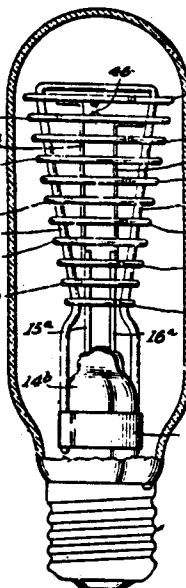
No doubt the oscillator works and is an interesting piece of equipment, but I wouldn't stake my health or anyone else's on it.



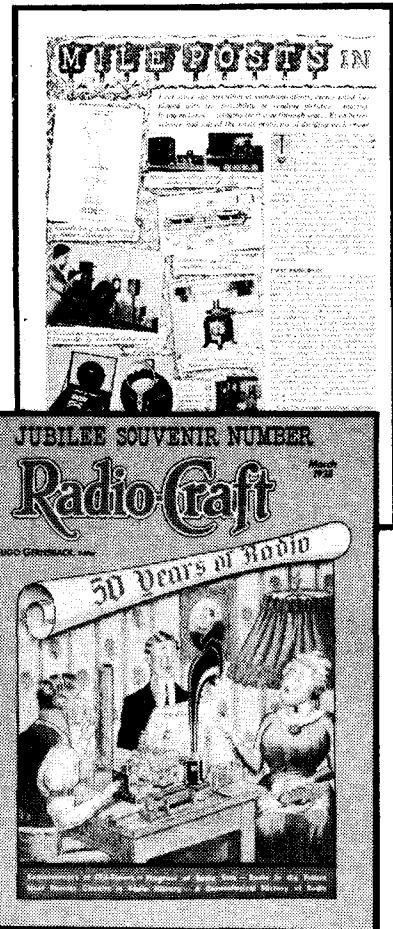
Quack medicine machines were everywhere in the 1920's & 30's. This could well be another.

In this typewritten report you get historical details, wiring diagrams, construction tips, articles on waves that heal, "documented" cases of cure, reprints of the Lakhovsky patents, and a series of reprinted magazine articles on the use of radio frequency waves to cure disease.

Modern physicians have found that electrical fields can speed healing of wounds in some instances. Perhaps this material has some merit, or perhaps it's all a hoax. Maybe it's another suppressed invention. You figure it out. You'll find it interesting reading — a very unusual collection of material. Get a copy. 8 1/2 x 11 spiral bound 156 pages  
Cat. no. 357 \$16.95



# Amazing "Radio Craft" Magazine from 1938



RADIO CRAFT MAGAZINE  
March 1938  
edited by Hugo Gernsback

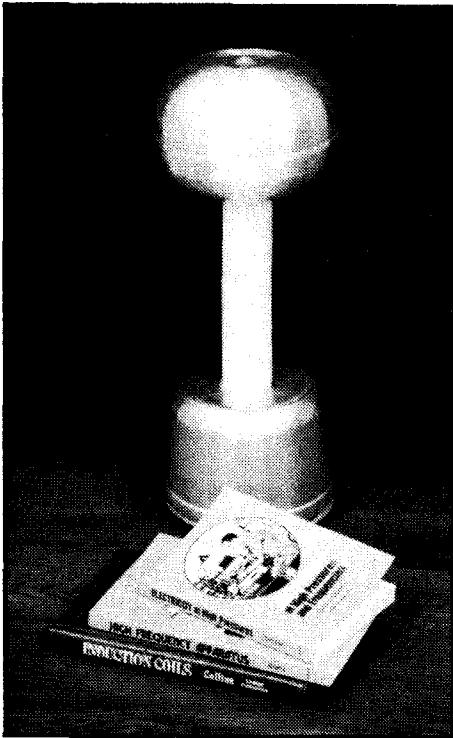
Radio got its start in the 1920's, but it wasn't until the 30's that it made it to the big time. By the late 30's "Radio-Craft" was one of many magazines entertaining and educating radio builders and enthusiasts.

In March 1938 the magazine published a special heavily illustrated edition on radio's first 50 years. And now you can have a complete reprint of that dynamite issue.

Articles include progress of radio receivers, reminiscences of old-timers, story of amateur radio, radio parts of yesteryear, mileposts in television, Fleming's valve, old-time radio stations, new tubes for '37-'38, super-regeneration in 1922, when the neutrodyne made its bow, early tube experiments and much, much more.

You get every fascinating article, advertisement and how-to construction tip. Great reading for anyone with even a slight interest in oldtime radio. Excellent book. Fun reading. Order a copy! 8 1/2 x 11 paperback 144 pp  
Cat. no. 353 \$14.95

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## Ready-to-Use

# Van de Graf Generator

## 200,000 Volt Van de Graf GENERATOR

Produce static electricity, lightning bolts, St. Elmo's fire, ion flow and lots of crazy things that most people have never even heard of. This baby it supposed to crank out over 200,000 Volts once it gets warmed up and rolling. I can't measure it, but I know it kicks!

Van de Graaf perfected this generator (at MIT if a I remember correctly) in the 1930's. Charges are collected on a motor-driven rubber belt at the base of the unit, carried to the top where they're stripped off and distributed evenly over the aluminum sphere-shaped electrode. When you bring your hand near the electrode, you'll get zapped.

A Tesla coil produces high-frequency AC current, while this produces a static electricity of one polarity. As a result you get use this unit to experiment with static electricity - experiments that might not work with a Tesla coil - charging a Leyden jar, for instance.

You get a generator that is about 17" tall with a top ball about 7" in diameter. The motor runs off 110 volts 60 cycle house current, and you get a spare rubber belt. I plugged it in and immediately got 1" sparks from the top electrode, and it usually produces more voltage after it runs a while. You get a little booklet with it that describes several experiments, but the books elsewhere in this catalog will give you a lot of ideas for static electricity experiments.

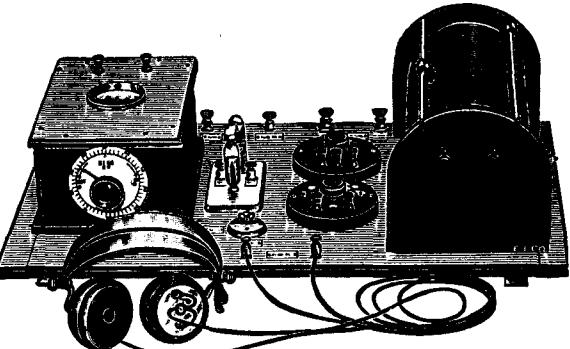
Your generator will come from the factory, so it may take somewhat longer to arrive. A bit expensive, but fun. Another great demonstration machine, if nothing else. Safe! Order one! Cat. no. 379 \$156.00



**1914 CATALOG  
ELECTRO IMPORTING CO**  
*reprinted by Lindsay Publications*

It's 1914! And you've decided to build a receiver to listen in the wireless traffic that is beginning to fill the air-waves. Or you've decided to build a powerful sparkgap transmitter. Or you can't wait to duplicate Tesla's experiments. But where do you get parts?

Here you'll find the most complete selection 1914 electrical components available anywhere! You'll find the peroxide of lead detector, the "Electro" Telegraph Key, the "Electro" Leyden Jar, and even the "Electro" 1/2 KW Transformer coil that would enable you to build a 100 mile wireless coil. You'll find illustrations, text, even practical how-to tips on everything imaginable: electrolytic interrupter, kick-back preventer, precision coherer, polarized relay, vario selective coupler, "Interstate" wireless receiving outfit, "Telimco" wireless telegraph outfit no. 4, the Omnigraph No. 2777, "Bull-Dog" spark coil, fancy Geissler tubes, the experimental X-Ray outfit, X-ray tubes, storage batteries, tungsten flashlights, household wiring sockets and switches, rheostat, 150 watt gasoline home lighting plant, hydro-electric plant, electric motors, electro-



# Electro Importing 1914 Catalog

**144 Pages of  
Incredible**

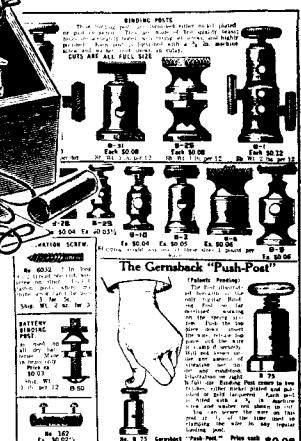
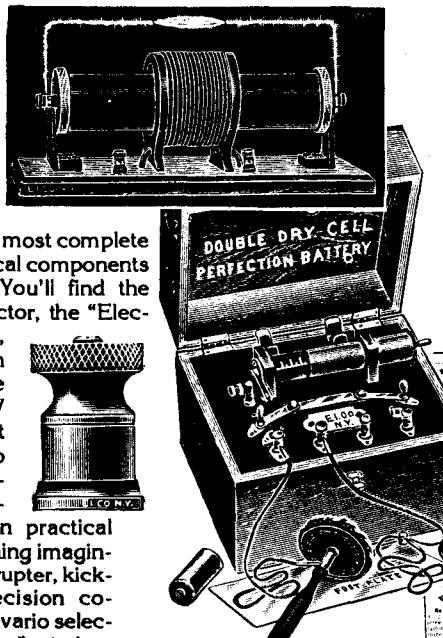
## **Electrical Parts**

plating outfit, Tesla transformer, electrical medicine machines, Wimshurst machine, hand tools, and much, much more.

(No, you can't order any of the equipment listed. If you try, you'll just make a fool of yourself.)

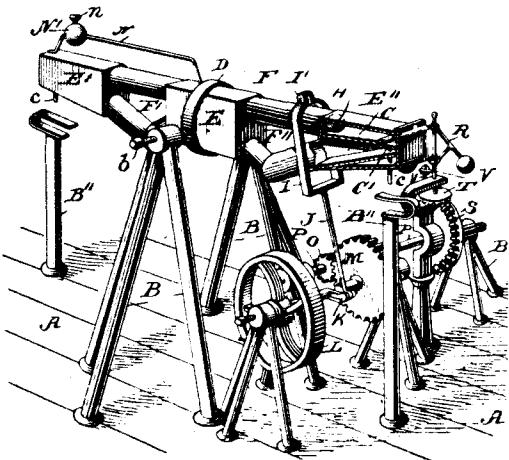
This is a small, well-il-

Illustrated, jam-packed catalog that features unusual equipment that is no longer manufactured and no longer used. This is fun reading and great reference for the collector, restorer, or builder of replicas. You'll find this quite enjoyable. I recommend it to any antique hardware freak, in other words, YOU! Get a copy. 4 1/2 x 6 1/2 paperback 144 pages Cat. no. 20587 \$7.95



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# FIFTY Perpetual Motion Mechanisms

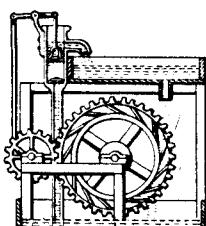


## FIFTY PERPETUAL MOTION MECHANISMS

by Fred Dieterich  
reprinted by Lindsay Publications

The author was a patent attorney at the turn of the century. I suppose that so many people considered themselves inventors and presented him with so many headaches that he wrote a book entitled "The Inventors Universal Educator" covering the process of securing a patent. It sold for many years starting 1899.

One short section of his book covers perpetual motion inventions which are unpatentable. Dieterich, who was outraged by claims of



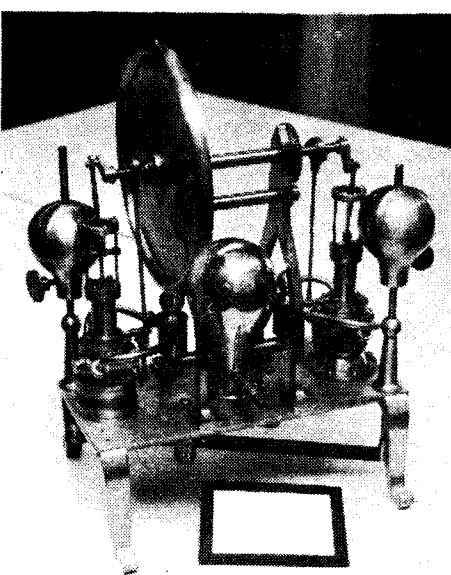
perpetual motion, presents drawings of 50 different mechanisms. No doubt, you've already seen a number of these, but others are unique, and all are interesting.

You'll see the Marquis of Worcester wheel, the Horace Wickham machine, the 1868 device of Dr. Drasch of Austria, an electric device, the self-moving railway, the Orfyreas 1720 wheel, a complicated water screw, and others.

If you're into PM, you'll want to add this to your collection. Maybe you're trying to build a machine and want to avoid previous failures. Or you're a skeptic and want a good laugh. Whatever, the material is interesting and the price is low. Get a copy. You'll like it. 8 1/2 x 5 1/2 booklet 22 pages

Cat. no. 898

\$3.75



# PERPETUAL MOTION HISTORY

## PERPETUAL MOTION The History of an Obsession

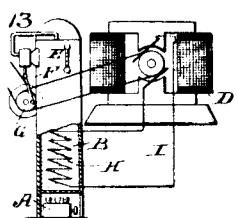
by Arthur Ord-Hume

People for centuries have attempted to build a machine that will produce more energy than it consumes. And they've all failed.

If you think you've invented a new type of perpetual motion machine, you had better read this book. Chances are, it has already been attempted.

For the rest of us, this book is interesting reading. There are some machines, that don't actually produce energy, but they run seemingly forever on a small amount of energy, like Singer's perpetual chime that was set up in 1840 and is still operating!

Learn about medieval machines, self-moving wheels, lodestones, electromagnetism, steam, capillary attraction, spongewheels, Cox's machine, the Redheffer device, the Keely motor, odd ideas about vaporization and liquification, the barring of per-



petual motion devices from the patent office (a lot though the magnet motor sneaked in), rolling ball clocks, and more. You get lots of illustrations, and an excellent list of references for further reading.

Interesting book! Well written and researched. Excellent done. If nothing else, put one in your reference library. It's not all that expensive. 5 1/2 x 8 1/2 paperback 235 pages.

Cat. no. 510

\$6.95

# PERPETUAL MOTION MYSTERY

## THE PERPETUAL MOTION MYSTERY

by R. A. Ford

Perpetual motion. Some people laugh at it. Others take it very seriously. Here's a serious look at these unusual systems.

First, you get a reprint of the small and now-rare "Perpetual Motion Handbook Through Entropy Reversal" published in 1967 by I. R. Barrows. Then, you get his first (and last) four "Perpetual Motion Journals" published about the same time. Each is small but filled with letters, patents, ideas, illustrations, and thought-provoking suggestions.

The author jumps into a discussion of why perpetual motion might be possible, pointing out unusual theories from the past, and pointing out possible defects in current theories.

Covered are kinetic gravitational theories of the 18th century, DesCarte's Vortex Theory, LeSage's Impact Theory of Gravity, and Brush's Wave Theory. Attempts at experimental confirmation of these theories are then provided.

Natural gravitational anomalies such as solar eclipse, bulging river surfaces, bore at sea, unusual rock movements, slowly falling hail are revealed. You'll learn about Robert Cook's inertial propulsion device and its relation to Newton's Law.

The last large section covers the Orfyreas wheel built in Germany centuries ago. The author believes it might have been the only real perpetual motion machine yet invented, the secret of which was lost. You'll learn about the inventor's life, his education, his wheels, his successes and failures, the tests, and more.

Last, the author, based on the material presented in earlier chapters suggests how a perpetual motion machine might be built.

You get a collection of strange, rarely seen stories and phenomena that might hold the key to perpetual motion, if, indeed, such a machine can be built.

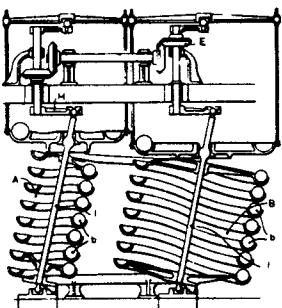
This is not a construction manual, nor is it extremely complex. It's a notebook gathered over the years, one that should be interesting to believers and non-believers.

Consider it. You won't find anything quite like it on the market. Different. Unusual. Interesting reading. Get a copy.

5 1/2 x 8 1/2 paperback 196 pages

Cat. no. 4538

\$9.95



# The Strange Books of Charles Fort

Four Mysterious Books in One!

The Complete Books of CHARLES FORT

by Charles Fort

Strange! Very strange! A must book for anyone who researches unexplained phenomena. The dust jacket explains the book better than I can...

"Did beings from outer space visit earth in the past... are the various objects seen in the sky (flying saucers, in modern terminology) evidences of their visits?

"What is the explanation of falls of frogs, falls of fishes, falls of seashells, which have been recorded from time to time? Are they explainable in terms of selective tornadoes, or are they evidences of a planetary mechanism that we do not know?

"How can we answer reports of strange animals, disappearances of men from open sight, curious structures in the snow, talents like teleportation and telekinesis?

"These are the 'damned,' by which the late Charles Fort meant all the wide range of mysteries that are ignored by orthodox science or explained away improperly.

"Charles Fort worked full time for twenty-seven years at the British Museum and the New York Public Library researching scientific journals, old periodicals, newspapers, and manuscript accounts to gather material on phenomena from the borderlands between science and fantasy. His researches appeared in four books, *The Book of the Damned* [1919], *New Lands* [1923], *Lo!* [1931], and *Wild Talents* [1932].

"In these four volumes Fort gathered together, organized and commented on a wild host of phenomena: flying saucers seen in the sky before the invention of aircraft, flying wheels, strange noises in the sky; correlations between volcanic activity and atmospheric phenomena; falls of red snow; falls of frogs, fishes, worms, shells, jellies; finding of 'thunderbolts'; discrepancies in the schedules of comets, sightings on Mars and the moon; infra-Mercurian planets; inexplicable footprints in snowfields; flat earth phenomena, disruptions of gravity; poltergeist phenomena; stigmata; surviving fossil animals; the Jersey devil; Kaspar Hauser;

*Frogs & Fishes Falling from the sky!*

*Flying Saucers in Victorian days!*

*Teleportation!*

*Telekinesis!*

*Mysterious Planets!*

*Unusual gravity!*

*Poltergeists!*

*Living Fossils!*

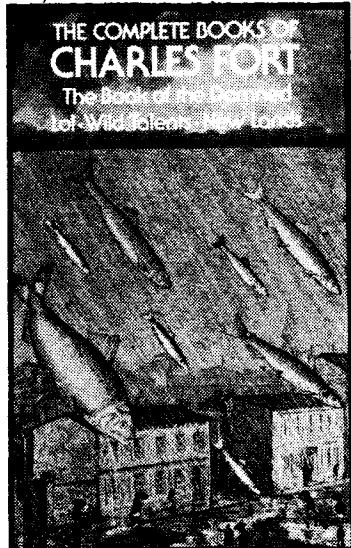
*Much More!*

*Mysteries unexplained by science!*

*27 Years of Research into old newspapers and journals!*

*Four books reprinted in one hardcover volume!*

*Incredible collection of mysteries!*



spontaneous combustion....

"Charles Fort himself never really explained his phenomena... yet through the years his following has grown...."

In this three-inch-thick hardcover book you'll find more details on more strange, unexplained events than you'll find anywhere else. It's an incredible collection that should be part of any library on fringe science. If you specialize in the gray area at the outer edge of science, you must have a copy of this. Recommended.

No illustrations, but there is a complete and detailed index. 5 1/2 x 8 1/2 hardcover 1126 pages Cat. no. 750 \$29.95

# The Earth is HOLLOW!

A Rare 1906 Hollow Earth Classic is Back!

THE

PHANTOM OF

THE POLES

by

William Reed  
reprinted by  
Lindsay  
Publications

The earth is hollow! I don't think so, but a lot of people do. And this is a reprint of an early, rare classic text on the topic. Some people claim that there are holes at the ends of the earth that lead into the interior where there are continents and civilizations that are yet to be discovered. In fact, some people claim that NASA satellites have photographed these holes but that the photos have been suppressed. In this book Reed set out to explain unexpected and unexplained phenomena seen at the poles.

Chapters include flattening of the earth at the poles, length of polar nights, working of the compass, around the curve, mysteries of the polar regions, the water sky - what it is, the aurora, meteors or volcanic disturbances, finding of rock in and on ice, dust in the



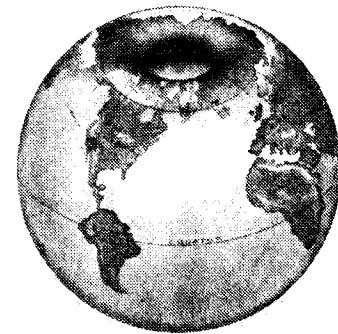
what is in the interior of the earth.

You'll find a variety of illustrations, but don't expect photographs. I can't recall anyone ever visiting the center of the hollow earth.

You'll find references to this rare 1906 classic mentioned in the few articles published on the hollow-earth theory in recent years. Now you can put a copy in your reference library at a fraction of the cost of an original assuming you can find one.

My screw-ball book printer thought at first that this was a book about a Polish super hero. I told him that my late Polish grandmother might have been offended by that comment. But on the other hand, she might have thought the book was her biography! Fortunately, my book-printer can print better than he can think....

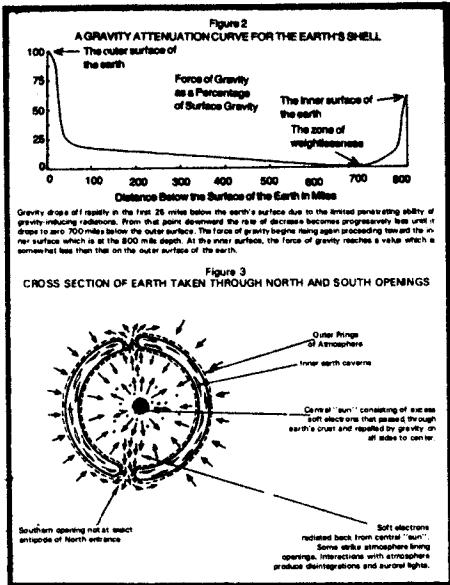
Rare book. Unusual. An essential part of that realm of unusual scientific theories and/or myths that never seem to die. Worth having? I think so. Consider it. 4 1/2 x 7 paperback 280 pages Cat. no. 20609 \$11.95



arctic, open water at the farthest point north and south, why it is warmer near the poles, driftwood - whence it came, have others that Esquimos inhabited the arctic regions? what produces colored snow in the arctic, where and how are icebergs formed, the tidal wave, clouds and fogs, arctic and antarctic winds, the centre of gravity, cannot reach the poles, and

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# Strange New Explanation of the Universe!



## THE AWESOME LIFE FORCE by Joseph H. Cater

The author is one of those people who claims that the government, the pentagon, NASA, the science community and others are suppressing knowledge and telling us lies, and that he alone has solved all of the mysteries. Although I find that hard to believe, some of his arguments are interesting.

Chapters include: undeniable discrepancies in conventional science, cause of tides, the hollow condition of the earth, closer look at the properties of light, popular misconceptions of atomic and particle physics, practical free energy devices, the Searl effect and related UFO phenomena, research of Von Reichenbach, pyramid of life, resolving the mystery of teleportation, materializations from higher realms, origin and transference of disease, and much more.

The author claims that there are holes at the north and south pole that go to the center of the earth. They've been seen and photographed by astronauts but are suppressed by NASA because they can't be explained.

If you believe in this sort of thing, you'll love this book. If you're trained in the sciences, you'll find many of his arguments border on the ridiculous. But regardless of what side of the fence you're on, you WILL find this interesting reading. It's as far out as any book I've seen yet. 5 1/2 x 8 1/2 paperback 475 + pages  
Cat.no. 679

\$14.95

# Early FAX & TV Equipment!

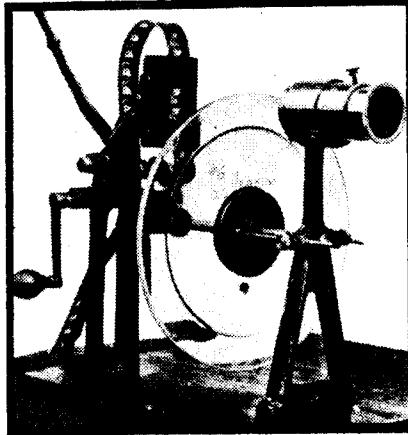
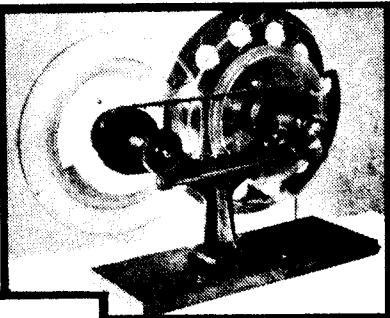
## VISION BY RADIO Radio Photographs, Radio Photograms by C. Francis Jenkins

Go back to 1925 and discover the latest devices developed to transmit photographs, in other words, the earliest fax machines and the earliest televisions!

This is an amazing book! You get details on the electrical components that existed at the time, the tests that had been tried, correspondence from famous people, and historical notes.

The most interesting section, I think, is illustrated review of existing machines: Nipkow & Sutton, the Amstutz system, the Electrograph, the Baker machine, the Dr. Korn Machine, the Rignoux and Fournier Scheme, the Belin machine, the AT&T machine, RCA's machine, the Braun Tube receiver, pictures by radio in natural colors (!), prismatic disc machines, the Jenkins prismatic ring, Jenkins synchronizing forks, Jenkins picture-strip machine, Jenkins Duplex machine, talking machine photographs, radio vision (television), Jenkins high speed camera, and more.

Obviously, this book was written and pub-



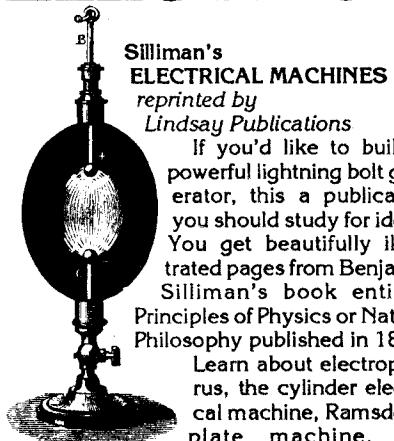
## 1925 Television

lished to glorify Jenkins and Jenkins Laboratories Inc (no doubt so he could make more money). But it delivers more photos, drawings, and patents on early fax and TV equipment than I've ever seen anywhere before.

It's really good, and the price we ask is a mere fraction of what you'd pay for an original if you could find one. Rare information! Excellent book. Get a copy! 5 1/2 x 8 1/2 paperback 140 pages  
Cat. no. 20200

\$9.95

## Silliman's ELECTRICAL MACHINES

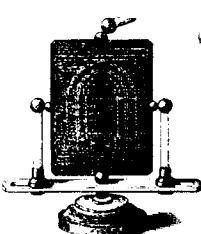


### Silliman's ELECTRICAL MACHINES reprinted by Lindsay Publications

If you'd like to build a powerful lightning bolt generator, this a publication you should study for ideas. You get beautifully illustrated pages from Benjamin Silliman's book entitled Principles of Physics or Natural Philosophy published in 1865.

Learn about electrophorus, the cylinder electrical machine, Ramsden's plate machine, the American plate machine, Ritchie's double plate machine, the Tylerian machine, care & management of machines, electricity from steam, and other sources of electrical excitement. Discover seven simple but entertaining experiments. Then investigate equipment to store electricity such as the  $\Delta$ pinus condenser, Volta's condensing electroscope, Dr. Hare's single gold leaf electrometer, the Leyden jar, Leyden jar batteries, the spark, Kinnersley's thermometer, electrical discharge in a vacuum, the diamond jar, scintillating tube and magic squares, chemical experi-

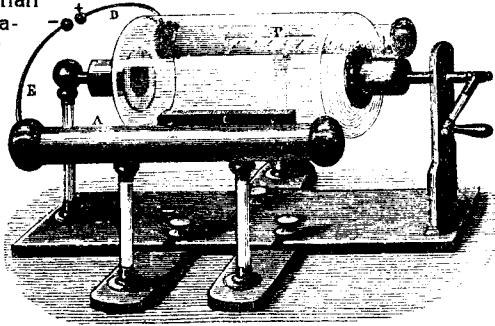
High  
Voltage  
equipment  
from  
1865!



ments, Volta's lamp and more.

This is another collection of rare static electricity information that is no longer found in modern physics textbooks. And wood cut illustrations like these haven't been produced in decades. Get a copy of these. It will make an excellent addition to your reference library. 5 1/2 x 8 1/2 booklet 24 pages  
Cat. no. 840

\$3.25



# EXPERIMENTAL SCIENCE!

## EXPERIMENTAL SCIENCE

by George M. Hopkins

Fantastic! There is no other way to describe this incredibly illustrated two-volume set from 1906. It is certainly worth having.

Starting about 1889 "Scientific American" Magazine published a regular column by George Hopkins showing readers how they could build experimental equipment and test their own versions of new inventions such as the electric light, telephone, and phonograph. Hopkins' columns were routinely reprinted in books, and this 25th edition from 1906 had to be split into two volumes. And what a pair of volumes they are!

You'll find some of the most fantastic wood engravings ever, illustrating experimental equipment of all types.

Volume One consists of nineteen chapters on rest, motion, force, gyroscopes, liquids, gases, sound, heat, light, polarized light, microscopy, photography, magnetism, frictional (static) electricity, dynamic electricity.

Build a gyroscope, Foucault's pendulum, a simple hydraulic press, a hydraulic ram, simple air pump, Geissler tube, a recorder for sound vibrations, device for production of sounding waves, a simple phonograph, centrifugal siren, and Norremberg Doubler. And these are just a few of the projects in only the first half of the first volume!

You can build a simple microscope and accessories, or a simple camera with plate holder, make Daguerreotype photos like those from the 1840's (dangerous), experiment with magnets, static electricity, build all kinds of batteries, a device that converts heat directly into electricity, build bells, electromagnets, and even a 1/4 hp electric motor.

Volume Two will take you into more electricity by investigating AC electricity, arc lamps, high voltage induction coils, and much more. You

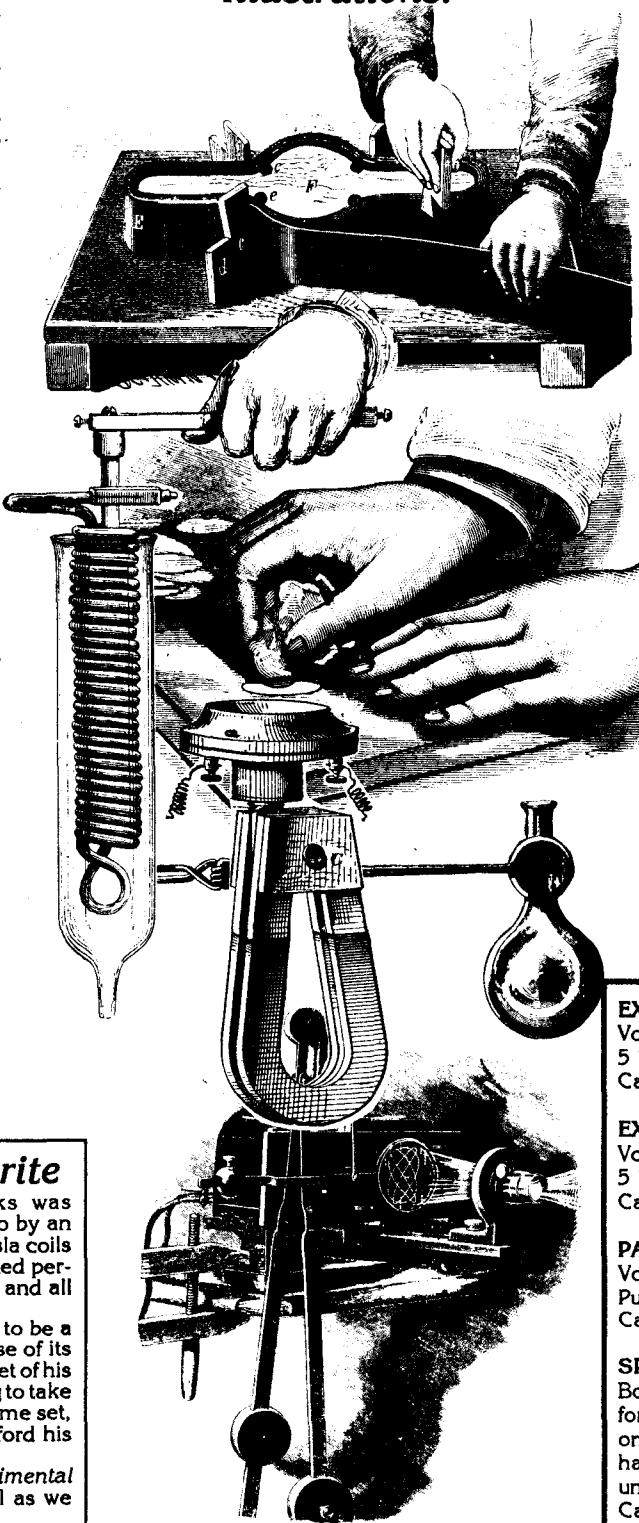
### Researcher's Favorite

The existence of these books was pointed out to me several years ago by an avid experimenter who has built Tesla coils and Wimshurst machines, researched perpetual motion, free energy devices and all types of unorthodox subjects.

He found *Experimental Science* to be a very valuable reference, but because of its rarity, he hadn't been able to buy a set of his own. When I told him that I was going to take a chance on reprinting the two volume set, he jumped for joy. Now he can afford his own set. So can you.

We're confident you'll find *Experimental Science* as much fun and as useful as we have.

Over 1,000 Pages! • Incredible Machines! • Forgotten Experiments! • Incredible Illustrations!



can build a telephone. Build a magic lantern and perform a variety of interesting projections.

You'll get practical how-to on blowing glass, making lenses, etching glass, making test tube racks and the like, making and using a crucible furnace, sand casting, making carbon rods and plates, and more.

You'll be shown how to perform a variety of scientific parlor tricks. Discover scientific uses for the phonograph, build an opaque projector, and a simple acetylene gas generator. Try experiments with super cold liquid air, or new advances in photography including color photography, divining rods and metal detectors, long distance telephony, new wireless telegraphy, building an electric clock, high voltage experiments, even poly phase electricity!

If you haven't guessed by now, this is both an introduction to physics and simple directions for building strange equipment.

The how-to you get is not overly detailed. You're expected to have some mechanical ability. You *WILL* get excellent illustrations that will show you almost everything you need to know. Any additional secrets are pointed out in the text.

If you want to build and run scientific equipment that hasn't even been seen in decades, you should have this. Kids can build a unique science fair project. Old book lovers will treasure this. And if you love machines, you will get hours and hours of enjoyable reading.

It's impossible to reveal the scope and beauty of these two books in the limited space this catalog provides. But take my word for it, these are fascinating books. Top quality. Expensive, but worth the price. Look them over carefully.

### EXPERIMENTAL SCIENCE

Volume One

5 1/2 x 8 1/2 paperback 560 pages  
Cat. no. 4490 \$19.95

### EXPERIMENTAL SCIENCE

Volume Two

5 1/2 x 8 1/2 paperback 532 pages  
Cat. no. 4503 \$19.95

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Purchased separately: \$39.90  
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# Handbook of Chemical Technology

HANDBOOK OF CHEMICAL TECHNOLOGY 1872

by Rudolf Wagner  
translated by William Crookes  
reprinted by Lindsay Publications

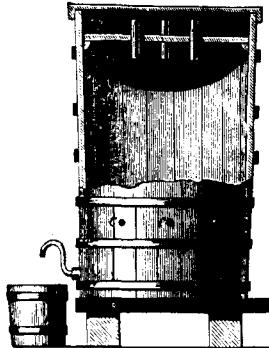
In the 1870's a technological revolution was sweeping the US and Europe. Although the Americans were tops in mass production, it was the German chemists who lead their field. The master reference for chemists the world over was Wagner's *Handbook*. This 1872 translation of the eighth German edition can be yours for much less than an original copy should you be able to find one.

And what a book it is!

If you're looking for information on early and/or simple ways of making chemicals, refining metal, formulating glue, paper, dyes or just about anything else chemical in nature, this is the reference for you. I have never seen such a comprehensive collection of incredible technological detail in a single volume anywhere else.

Want to refine iron ore into steel? Want to make sulphuric acid? And use it to make nitric acid? And use it to make explosives? Care to brew beer? How about a batch of whiskey? A loaf of bread? And on, and on, and on. You can see from the table of contents that this is a whole encyclopedia in a single volume — 745 pages of small type with 336 illustrations mostly of the apparatus used in manufacturing the products described.

This is not really a cookbook. You won't find step-by-step instructions. But you will find more detail on a wider variety of basic essential processes, many of them made obsolete by more complicated processes, than in any other volume. I can't help believe that if you're investigating the possibility of tanning hides, making illuminating gas, making charcoal, making soap,



## Absolutely Incredible 1872 Technical How-to!

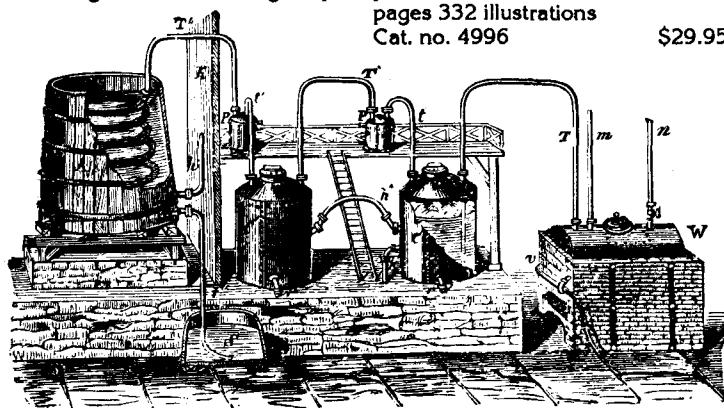
or anything else that this single volume can provide more information in less time than searching through most libraries for a month of Sundays.

You'll see hundreds of illustrations of equipment along with enough detailed information on its construction and use that you should be able to begin experimentation, or at least decide if your idea is worth pursuing.

Yes, this is an expensive volume. The price reflects the cost of reprinting a small number of this classic reference. But you get more than what you pay for. This is quality. Today we have sophisticated, hi-tech processes that are closely guarded industrial secrets. Here you learn how it was done before large corporations and PhD chemists took over production. Be warned, though. This is old world thinking. You run the risk of poisoning yourself. These methods can be and probably are dangerous.

This incredible classic text will definitely fill a void in your reference library. I've never seen anything like it. And it's almost a sure thing you haven't either. It's expensive, but it's worth every penny and then some. Order a copy. You won't be disappointed. 5 1/2 x 8 1/2 hardcover 745 pages 332 illustrations

Cat. no. 4996 \$29.95



## Contents

Division I — Chemical Metallurgy; Alloys; and Preparations Made and Obtained from Metals. Iron; Pig or crude iron; Malleable, bar or wrought-iron; Steel; Iron Preparations; Cobalt; Nickel; Copper; Preparations of Copper; Lead; Preparations of Lead; Tin; Preparations of Tin; Bismuth; Zinc; Preparations of Zinc; Cadmium; Antimony; Antimonial Preparations; Arsenic; Quicksilver or Mercury; Preparations of Mercury; Platinum; Silver; Gold; Magnanese and its preparations; Permanganate of Potassa; Aluminum; Magnesium; Electro-Metallurgy

### Division II — Crude materials and products of chemical industry

Carbonate of Potassa; Saltpeter, Nitrate of Potassa; Nitric acid; Technology of the Explosive Compounds — gunpowder, and the chemistry of fireworks or pyrotechny; Nitroglycerine; Gun-cotton; Common salt; Manufacture of Soda — native soda; Soda from plants or soda-ash; Soda Prepared by Chemical Processes; Preparation of Iodine and Bromine; Sulphur; Sulphurous and Hyposulphurous Acid; Manufacture of Sulphuric Acid; Sulphide of Carbon; Hydrochloric Acid and Glauber's Salt, or Sulphate of Soda; Bleaching Powder and hypochlorites; alkalimetry; Ammonia and ammoniacal salts; Soap making; Boric or boracic acid, and borax; Production of alum, sulphates of alumina, and aluminates; Ultramarine

### Division III — Technology of Glass, Ceramic Ware, Gypsum, Lime & Mortar

Glass manufacture; Ceramic or earthenware manufacture including hard porcelain, tender porcelain, stoneware, Fayence ware, common pottery, brick and tile making; Lime and lime-burning; Mortar including common or air-setting mortar and hydraulic mortar; gypsum and its preparation

### Division IV — Vegetable Fibers and Their Technical Application

Hemp; Cotton; Paper making — hand paper, machine paper, pasteboard and other paper; Starch; Sugar manufacture; Cane Sugar; Beet-root; sugar; Grape sugar; Fermentation; Wine-making; Beer-brewing; preparation or distillation of spirits — preparation of vinous mash and distillation of the vinous mash; Bread baking; Manufacture of vinegar; Preservation of wood; Tobacco; Technology of essential oils and resins; Cements, lutes and putty

### Division V — Animal Substances and Their Industrial Application

Woollen industry; Silk; Tanning; Glue Boiling; Manufacture of Phosphorus; Requisites for producing fire; Animal charcoal; Milk; Meat

### Division VI — Dyeing and Calico Printing

Aniline colours; Carbolic Acid colours; Naphthalene pigments; Anthracen pigments; Pigments from Chinchonine; Red Pigments occurring in plants and animals; Blue dye materials; Yellow dyes; Bleaching; Dyeing of spun yarn and woven textile fabrics; Printing of woven fabrics

### Division VII — Materials and Apparatus for Producing Artificial Light

Artificial light from candles; Illumination by means of lamps; Gas; Paraffin and solar or petroleum oils; petroleum

### Division VIII — Fuel and Heating Apparatus

Fuel; Wood; Peat; Carbonized peat; Brown-coal; Pit coal or coal; Petroleum as fuel; coke; artificial fuel; gaseous fuel; heating apparatus; heating dwelling houses; boiler heating and consumption of smoke

# Experimental Physics

## Procedures in EXPERIMENTAL PHYSICS

by John Stong  
reprinted by Lindsay Publications

If you consider yourself an experimenter, an inventor, or a builder of unusual machines and equipment, you must have a copy of this fantastic classic text. No two ways about it.

You'll find wall-to-wall practical how-to and incredible illustrations on almost every one of the more than 600 pages. Chapters include: laboratory glass blowing, laboratory optical work, technique of high vacuum, coating of surfaces by evaporation and sputtering, the use of fused silica, electrometers and electroscopes, geiger counters, vacuum thermopiles and the measurement of radiant energy, optics, photoelectric cells and amplifiers, photography in the lab, heat and high temperature, notes on the materials of research, notes on the construction and design of instruments and apparatus, and molding and casting.

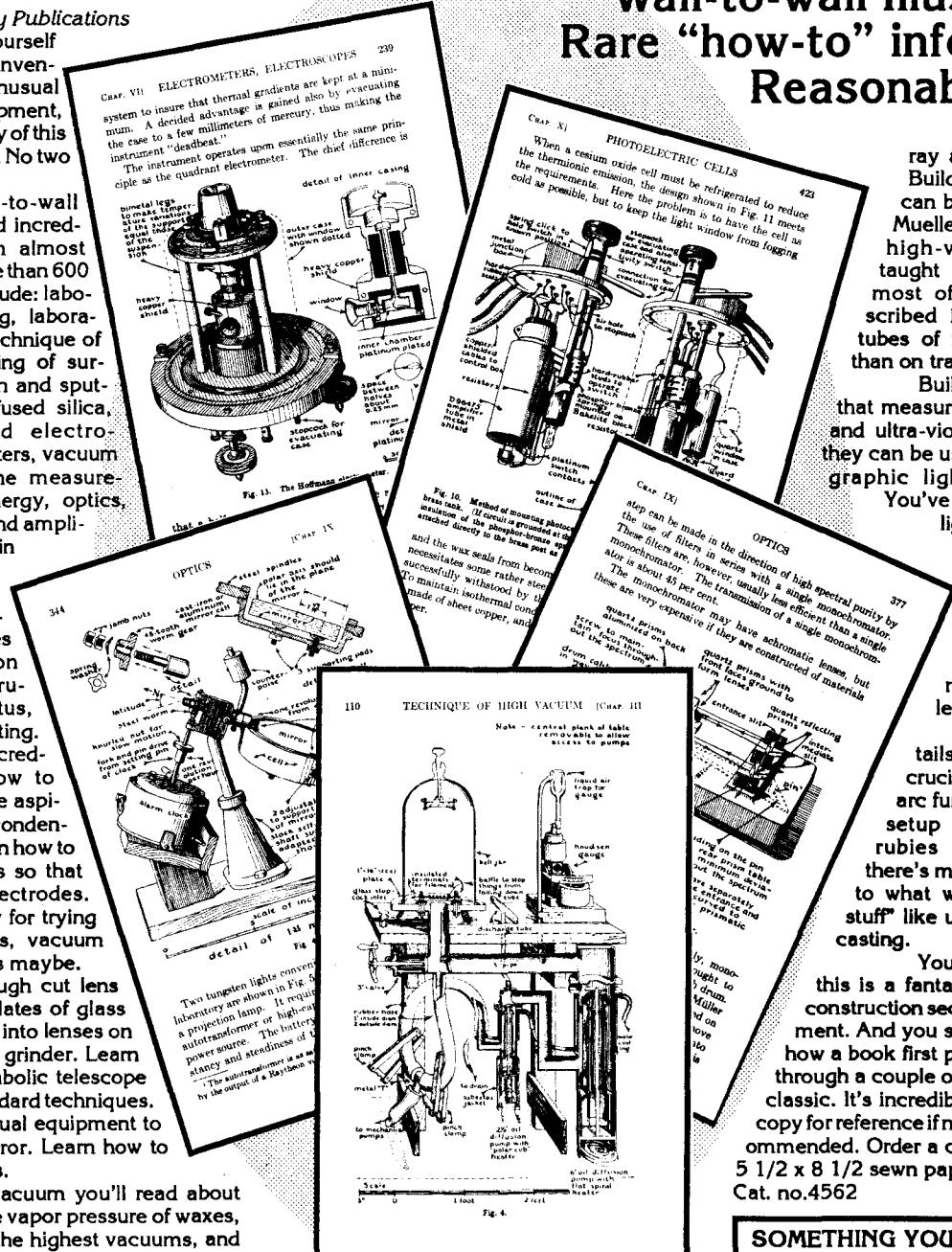
This is some incredible stuff! Learn how to blow glass and make aspirators, distillation condensors, and so on. Learn how to seal copper to glass so that you can imbed electrodes. This could be handy for trying to make light bulbs, vacuum tubes, or x-ray tubes maybe.

Learn how to rough cut lens blanks from large plates of glass and then grind them into lenses on your homebuilt lens grinder. Learn how to make a parabolic telescope mirror using the standard techniques. Learn to make unusual equipment to test the finished mirror. Learn how to grind a Schmidt lens.

To create high vacuum you'll read about roughing pumps, the vapor pressure of waxes, getters for creating the highest vacuums, and learn to make a variety of diffusion pumps using mercury and oil. See charcoal traps, kinetic vacuum systems, vacuum gauges of all types. Remember, all this comes with construction details.

Learn how to silver mirrors with a variety of methods including vacuum sputtering. You'll find extensive details on the evaporation technique for aluminum.

Fused quartz is valuable because unlike glass it can withstand extreme temperature changes without shattering. Learn how to build



micromanipulators and all the rest of the equipment to produce tiny fibers that can be used for suspending the elements of an electrometer, for cross hairs in optical instruments, or for building a balance. The microbalance shown is supposed to be sensitive down to a billionth of a gram per division!

And there's so much more! Build a Competition adjustable quadrant electrometer, a Hoffman electrometer, and others useful for x-

**Incredible Laboratory Secrets!  
Wall-to-wall Illustrations!  
Rare "how-to" information!  
Reasonable Price!**

ray and cosmic ray work. Build a Geiger counter. You can build your own Geiger-Mueller tube if you master the high-vacuum technique taught earlier. Unfortunately, most of the electronics described is based on vacuum tubes of fifty years ago rather than on transistors.

Build vacuum thermopiles that measure infrared, visible light and ultra-violet so accurately that they can be used to calibrate photographic lightmeters and such.

You've heard of carbon arc lights, but do you know how to build iron arc lights? Or low pressure mercury arc lights? And others? You can even build a machine to measure the wavelength of colored light.

length of colored light. You'll find details on hydrogen furnaces, crucibles, burners, electric arc furnaces, and even a lab setup for making artificial rubies and sapphires! And there's much more - even down to what we consider the "easy stuff" like using a lathe and sand casting.

You should see by now that this is a fantastic book loaded with construction secrets for unusual equipment. And you should now understand how a book first published in 1938 went through a couple of dozen printings! It's a classic. It's incredible. You should have a copy for reference if nothing else. Highly recommended. Order a copy today.

5 1/2 x 8 1/2 sewn paperback 642 pages  
Cat. no. 4562 \$23.95

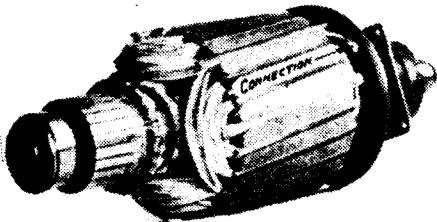
#### SOMETHING YOU SHOULD KNOW

This is no ordinary paperback book. "Experimental Physics" is printed on acid-free paper and is sewn like a hardcover book to prevent pages from falling out.

According to pricing formulas, it should sell for much more. If a book like this were released today by a certain major book publisher whose books I've carried from time to time, they would charge from \$45 to \$65 a copy. Maybe even more. At \$23.95 it's a steal. Get a copy.

# AUTOPOWER

Classic 1935 text on automobile generator conversions and modifications!



**AUTOPOWER** — Automobile Generator Conversions and Modifications

by S. W. Duncan  
reprinted by Lindsay Publications

From out of the Great Depression comes this unusual book on ways to make auto generators produce unusual amounts of power. The major problem with this book is that the generators being rewound are no longer available. Even if you were to find one of the units listed it would now be a hard-to-find part for an antique car. If you were to rewind one of these antique generators, I'd personally drive over and "smack you up 'long side the head!"

If that's the case, then why would I reprint something like this? Simple. The principles taught here can be applied to modern generators, DC motors, starter motors and more. You get detailed, practical how-to that can be adapted to modern needs. In other words, this is raw material for your brain. I can't guarantee your success, but I can guarantee that the info you find here is rare, and that you'll get your money's worth.

Chapters include changing a Ford Model A generator to a 110 volt alternator, get constant voltage at variable speed, converting a Dodge 12 volt generator into a 110 volt 500 watt alternator, changing a model T to 110 volt AC, making field and armature coils, changing a Delco generator to 110 Volt AC, the winding of automobile armatures, characteristics of DC generators, suggestions on mechanical construction of generators, figuring a new winding for an old frame, converting a farm light plant to 110 volt AC, and a chapter of definitions.

This is a heavily illustrated volume, wall-to-wall how-to.

We reproduced this from a stained, greasy, and obviously used copy of the original 1935 edition. We managed to clean it up to a remarkable degree, but the type is light in some places and some photographs are dirty. Although it's not perfect, it reproduced surprisingly well all things considered.

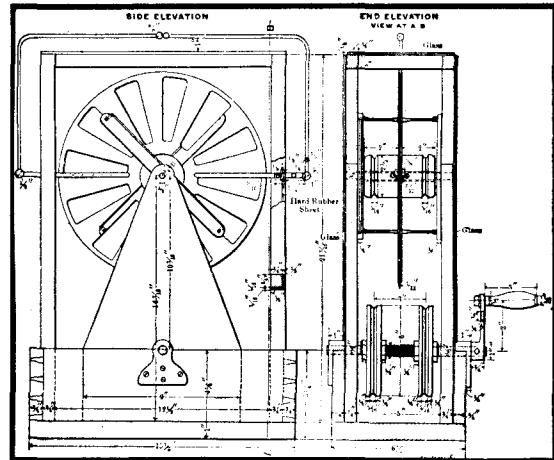
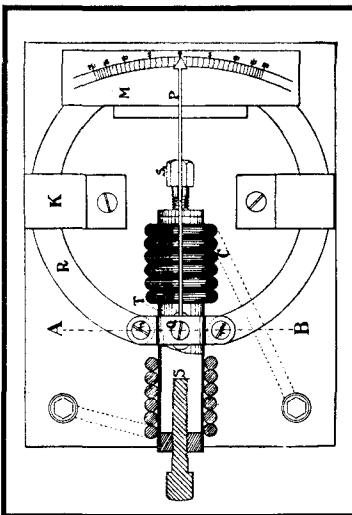
Get a copy of this. It's great even if it is old. This is one of those manuals that people talk about having seen years ago, but can no longer find. It's worth having a copy just for reference. Order a copy today. 5 1/2 x 8 1/2 paperback 56 pages

Cat. no. 4791

\$4.95

# ELECTRICAL DESIGNS!

34 Projects! From motors to Tesla Coils!



**ELECTRICAL DESIGNS**  
Articles from American Electrician Magazine  
reprinted by Lindsay Publications

By 1901 people were getting tired of shocking the cat. They realized that electricity was more than a novelty, and that it could be put to use doing heavy work. But electric motors were scarce and very expensive. It's no wonder that half of the pages in this book are devoted to building and winding motors.

As interesting and useful as motor plans are to some people, the beauty of this volume are the plans in the back half. You'll learn how to build rheostats, reactive coils, ammeters, voltmeters, a simple wattmeter, and a galvanometer.

Build a storage battery, a Bunsen photometer to measure the candlepower of light bulbs, an arc lamp, and a Nernst lamp. Build a telephone, a dry cell, and handy tools for working on motor commutators.

If you're into high voltage, you'll find useful plans for an induction coil, a Tesla-Thompson coil, a high voltage condenser for use with Tesla coils, and a powerful Wimshurst machine.

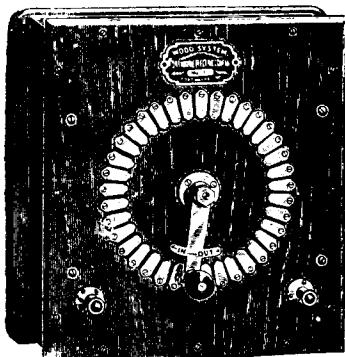
Every article is illustrated, and most drawings are dimensioned. The text is brief and to the point, but it should provide more than enough information for you to complete the project.

It doesn't matter whether you're interested in collecting ideas for winding modern working motors from the specs and instructions here, or if you're trying to build early exotic test equipment. You'll find something here to interest you.

With plenty of hard work you could probably build an entire electrical system: alternator, transformer, motors, rectifier, storage battery, lamps, telephone without having to buy any commercial parts other than wire! Think about it. Your friends would call you a modern day Thomas Edison!

Great ideas. Unusual plans. Plenty to keep your mind and hands busy. Get a copy of this! It's worth having! Order today. 5 1/2 x 11 paperback 262 pages  
Cat. no. 4228

\$11.50



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# LeJay Manual

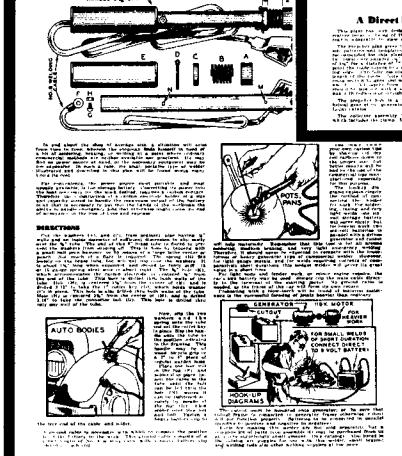
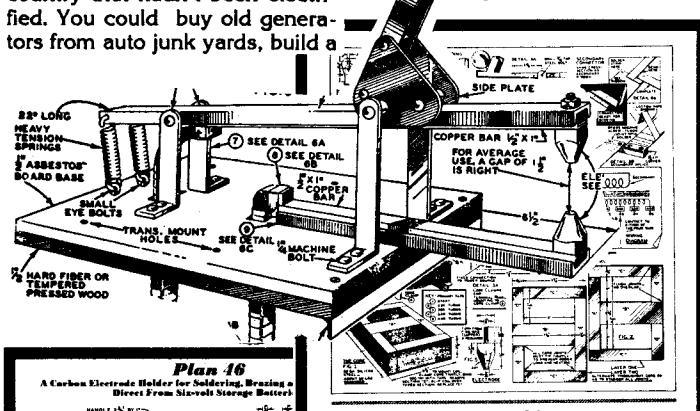
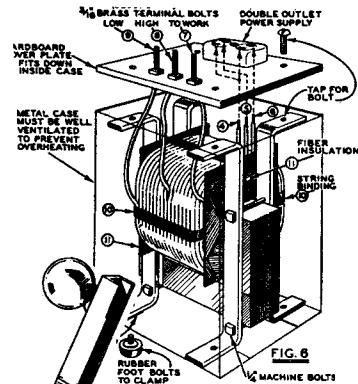
LeJay Manual - 1945 Edition

by Lawrence D. Leach

reprinted by Lindsay Publications

Beginning in the 1930's the LeJay Mfg Co in Minneapolis began publishing a booklet of plans for unusual electrical projects. As new editions came out, new plans were added until by 1945 there were 50 separate "chapters".

As you can see from the contents, most of the articles deal with the conversion with now-antique auto generators into 110 volt alternators, other voltage generators and motors. A lot of this info was used in areas of the country that hadn't been electrified. You could buy old generators from auto junk yards, build a



windmill, repair old auto batteries, use the electricity generated to power homebuilt motors, welders and so on.

Most of the information in this booklet is now of limited value simply because you can't get the generators listed. But rewinding data, hints and tips provided can help you in other rewinding projects for other types of generators.

There ARE several projects in this booklet any one of which is

worth the entire price of the publication. For instance, you can build a small but useful spot welder powered by nothing more than a string of auto batteries. You get plans for an arc welder, a transformer spot welder, a carbon-arc torch, electric bicycle, a water wheel, windmills and more. And they're all well illustrated.

This is a manual worth having in your reference library. You may not be able to use all of the information, but you'll get so many ideas even from those chapters you can't use, that you'll find this manual to be worth many times its retail price.

Great ideas. Fun to read. Useful projects. Worth having. Order a copy! 8 1/2 x 11 booklet 32 pages  
Cat. # 20013 \$6.95

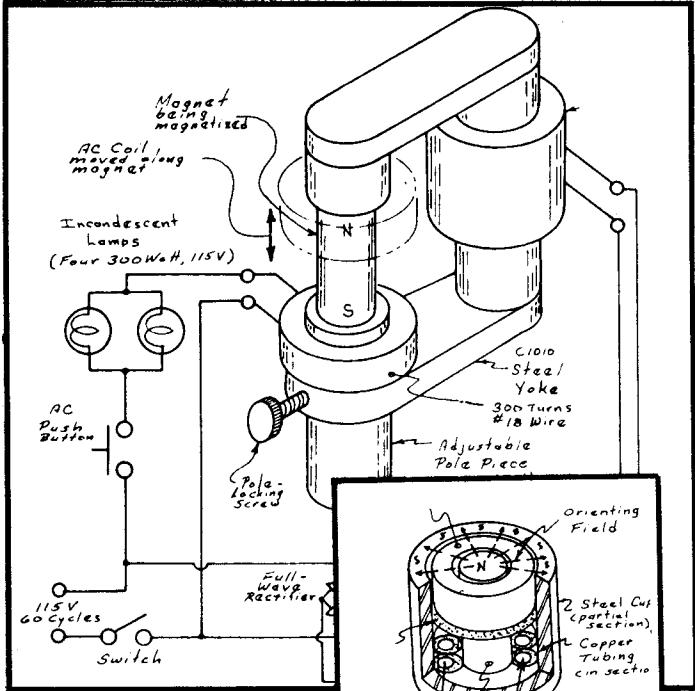
Cat. no. 20013 \$5.95

## Contents

- 1 Plans for 110 Volt AC Light Plant made from Ford Model "T" Generator
- 2 200 Watt AC Generator for Automobile Made from Ford Model "A" Powerhouse
- 3 A 6 Volt Slow Speed Generator (with plans for all-metal windmill)
- 4 6 Volt & 12 Volt Slow Speed Generators from Dodge "G" or "GA" Northeast Generator also from other Generators
- 5 A 32 volt slow speed wind light Plant Generator
- 6 One 32 Volt Motor, One 110 Volt Motor, One 32 Volt Generator, One 110 Volt Generator from Dodge Generator
- 7 How to Make a Grinder, Series Motor, Constant Speed Motor, A Universal AC or DC Motor and a Soldering Iron
- 8 A 75 to 110 Ampere Arc Welder Made from Dodge "G" or "GA" Generator. Also Dual Welders.
- 9 Pendulum Type Fence Controller made from Ford "T" Coil
- 10 Plans for Building a Complete Wind Light Plant Including Tower, Propeller and Generator Charger
- 11 A 110 Volt AC Light Plant Generator
- 12 A "B" Eliminator For Your Battery Operated Radio
- 13 An Automobile Generator Booster Control
- 14 A 6 Volt Slow Speed Generator from Standard 14 Slot 28 Bar Generator
- 15 A 32 Volt Constant Speed Generator made from Ford "T" Generator
- 16 A 2 Volt Slow Speed Generator from Standard 14 Slot 28 Bar Generator
- 17 How to Convert A 6 Volt Cut-Out for 2 Volt Operation
- 18 Directions for Repairing Your Own Batteries
- 19 A Water Wheel Made from Old Automobile Wheel
- 20 An Electric Outboard Motor from Old Ford "T" Generator
- 21 A Gas Engine or Motor Driven Generator with Drawings in Detail
- 22 An Armature Growler for Testing Auto or Slow Speed Armatures
- 23 Two 32 Volt Series Motors from Dodge "G" or "GA" Generator
- 24 A 32 Volt Heavy Duty Motor made from Dodge "G" or "GA" Generator
- 25 A Bench or Breast Drill for 6, 12, or 32 Volts from "T" Generator
- 26 A 6 Volt Motor for Drill Press, Washing Machines, etc. made from Model "T" Generator
- 27 One 12 volt Motor and One 32 volt Motor Made from Model "T" Generator
- 28 Two 6 Volt Generators from the Dodge, also general information
- 29 A 110 V. or 220 VAC Portable Transformer for Arc Welding
- 30 A 110 Volt Spot Welder — 1 Kw. Input Normal Draw 10 to 11 Amps
- 31 A Direct Drive 32 Volt Wind Plant — All Metal Construction
- 32 A Battery Spot Welder
- 33 Armature Diagrams for Autolite, Bosch-Autolite and Bosch Generators
- 34 Armature Diagrams for Delco, Delco-Remy, & Remy Generators
- 35 Armature Diagrams for Ford A, B and V8 Generators
- 36 Armature Diagrams for Northeast Generators
- 37,38 Armature Diagrams for Atwater-Kent & Dyneto Generators
- 39 Armature Diagrams for Leee-Neville Generators
- 40 Armature Diagrams for Wagner Generators
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- 42 Plans for Installing Lights on Your Tractor
- 43 Two Types 110 Volt AC Insect Exterminators
- 44 An Electric Scooter Using a 6 or 12 volt Battery for Power
- 45 An Electric "Go Bike" Using a 6 or 12 volt Battery for Power
- 46 A Carbon Electrode Holder for Soldering, Brazing and Light Welding Direct from Six-volt Storage Batteries
- 47 Ball Type Fence Controller Made from Ford "T" Coil
- 48 110 Volt AC 500 Watt Self Excited Generator from Dodge Model "G" or "GA" generator
- 49 110 Volt AC 60 Cycle 1/2 HP Synchronous Motor from Dodge Model "G" or "GA" Generator
- 50 An AC Welding Transformer Using Dodge Generator Coils

Appendix Windpower Information, Definitions, etc.

# Permanent Magnet Design & Application Handbook!



## PERMANENT MAGNET DESIGN & APPLICATION HANDBOOK

by Lester Moskowitz

Back in print! For now at least... The best magnet book I've seen.

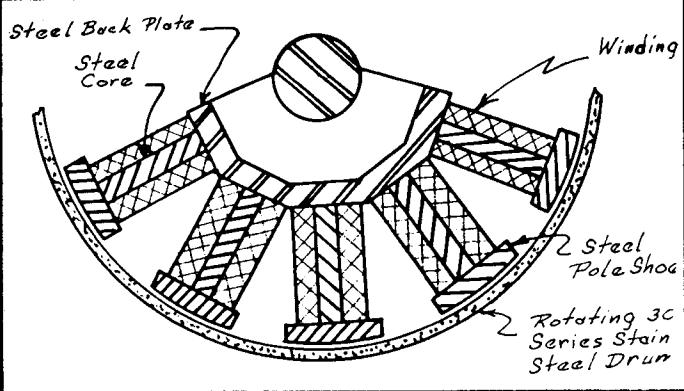
Opening this book gives you the feeling you've opened the lab notebook of a famous magnet scientist. It's loaded with drawings, diagrams, equations, notes, hints, tips, circuit diagrams and more.

Chapters include brief history of magnets, terms and definitions, classification of magnets and materials, basic manufacturing processes, fundamentals of magnetism, general design considerations, leakage and fringing, circuit effects, exact design methods, and on and on.

You get all kinds of information and making, testing and using magnets from a circuit diagram for a 100 joule impulse magnetizer to suggestions for use in magnetic drives, motors and magnetos, magnetic welding benches and much more.

Expensive! But the best book of its type I've ever seen. Just the right mix of theory and practical application. Rare information. If you think you'll ever need it, get it now. It went out of print once, and is being reprinted (probably only for a short time) by another small publisher. I'm glad to see it's back. 9x12 hardcover 443 pages heavily illustrated

\$65.00



# VACUUM TUBES in Wireless Communication

## Vacuum Tubes in Wireless Communication

by Elmer E Bucher

In 1919 radio had proven itself in the just-ended First World War. Radio's future looked bright.

The author explained his purpose in writing this book:

*"In preparing the text of this book, the author had two prin-*

*cipal objects in view: (1) to provide the Government and commercial wireless operator with a brief and simple explanation of the functioning of the circuits of the vacuum tube, (2) to lay before the experimenter and the practical operator the numerous circuits employed from time to time in the laboratory and in commercial practice.*

Outside of its obvious commercial value, the perfected vacuum tube affords the experimenter a most fascinating field of research. This is well evidenced by the fact that a single bulb with associated tuning apparatus connected to a four wire aerial 200 feet in length permits wireless signals to be received over distances 2,500 to 4,000 miles in daylight, and up to 6,000 miles in darkness."

On the title page is another description that says it all.

*"This volume shows over 140 different circuits for the practical use of Vacuum Tubes as Detectors, Radio or Audio Frequency Amplifiers, Regenerative Receivers, Beat Receivers, and Generators of Radio Frequency Currents.*

The Two, Three and Four Element Oscillation Values are described in detail together with the circuits used in daily practice. Cascade Amplifiers of the latest type for long distance reception are comprehensively

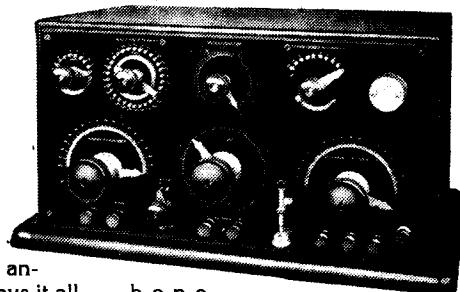
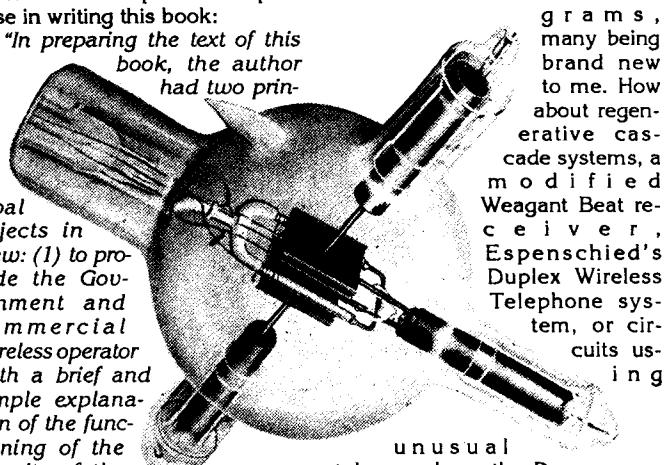
treated. Up-to-date circuits for long distance receptions are comprehensively treated..."

This almost all circuit dia-

grams, many being brand new to me. How about regenerative cascade systems, a modified Weagant Beat receiver, Espenschied's Duplex Wireless Telephone system, or circuits us-

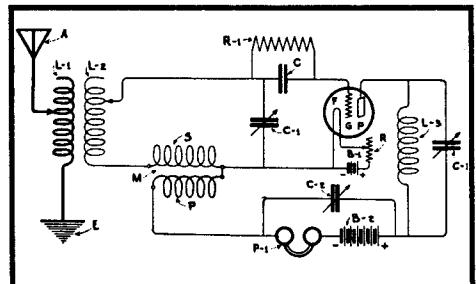
ing unusual tubes such as the Dynatron, the Pliodynatron, the Kenotron, or the Pliotron? Back then, this book described the cutting of technology as radio began to move away from spark gap code transmission to continuous wave methods using tubes.

This is a great collection of very unusual radio history — something you don't find everyday. 'Course I know a lot of



heads who would be just as happy if they NEVER found it any day. But don't you be one of them. Consider this carefully. Its unusual. 5 1/2 x 8 1/2 paperback 208 pages

Cat. no. 20412 \$12.95



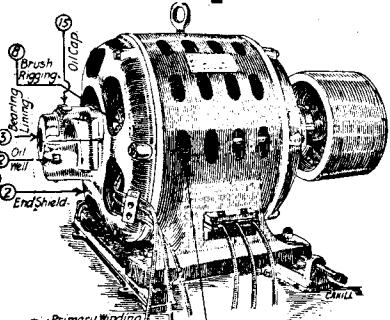
# ARMATURE WINDING and Motor Repair!

## ARMATURE WINDING AND MOTOR REPAIR

by Daniel H. Braymer

From 1920 comes this motor rewinding book loaded with drawings and photographs that will show you how to build both AC and DC machines.

Chapters include: DC machines, AC machines, shop methods of rewinding DC armatures, making commutator connections, testing DC armature windings, operations before and after winding DC armatures, insulating coils and slots for winding, shop methods for rewinding AC machines, testing induction motor windings for mistakes and faults, adapting DC motors to changed operating conditions, practical ways for reconnecting induction motors, commutator repairs, adjusting brushes and correcting brush troubles, inspection and repair of motor starters and gen-

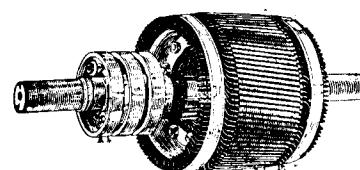


## Classic 1920 Text!

niques from removing old windings and cleaning slots, to winding the coils, insulating the end connections, inserting the coils, painting the windings, relining split bearings, and much more. You get data on all types of wave and lap windings, varnishing and insulating materials, and much more.

I make you no promises, but this is the logical place to start should you want to rewind a motor to particular voltage, wind a generator or alternator for use with a windmill or waterwheel, rewinding a big generator for use as a welder, modify a DC motor for use in an electric car, and so on.

This is a beautiful book. You get over 500 pages of clearly written, wall-to-wall practical how-to with excellent illustrations. This is as good as, and in most cases, is much better than, any motor book

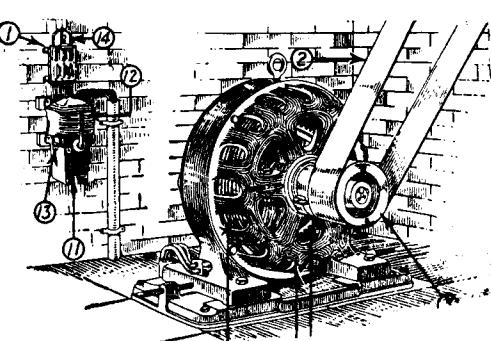


erators, diagnosis of troubles, methods to solve special troubles, tables and more.

One special chapter at the back will show you how to build the special tools and jigs, an armature sling, a pinion puller, coil winding machine, a coil taping machine, commutator slotter, armature banding machine and more.

The motors described are large types used in factories. But the principles apply to the smaller motors you and I use. You'll learn how to reconnect induction motors for different voltages and phases, how to operate a DC motor as a generator and vice-versa, change the DC motor windings for different voltages, and more.

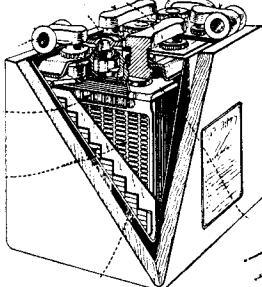
You'll be taught all the tech-



I've carried in the past, regardless of price. It's a gem that should be in the reference library of most "machine freaks" (that includes you, son). Order one as soon as you can. 5 1/2 x 8 1/2 paperback 540 pages

Cat. no. 4384 \$16.95

# Storage Batteries Simplified!

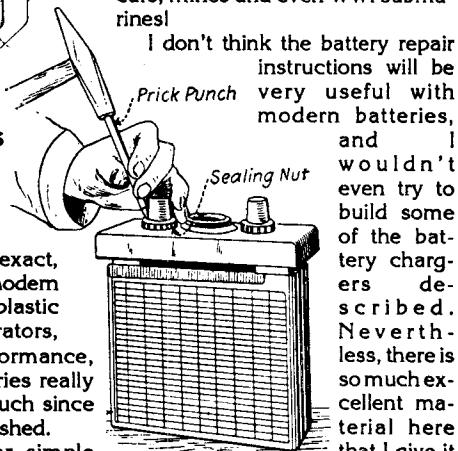


## STORAGE BATTERIES SIMPLIFIED

by Victor Page  
reprinted by Lindsay Publications

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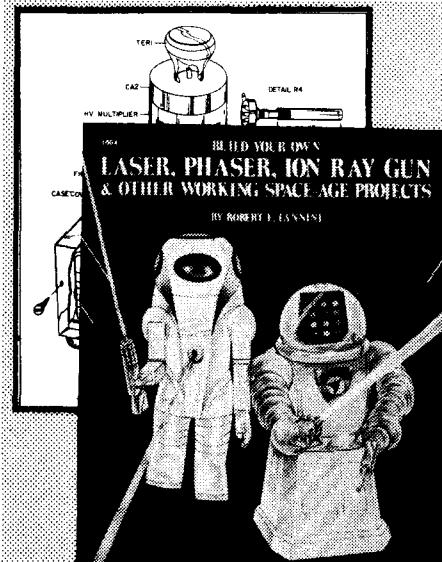
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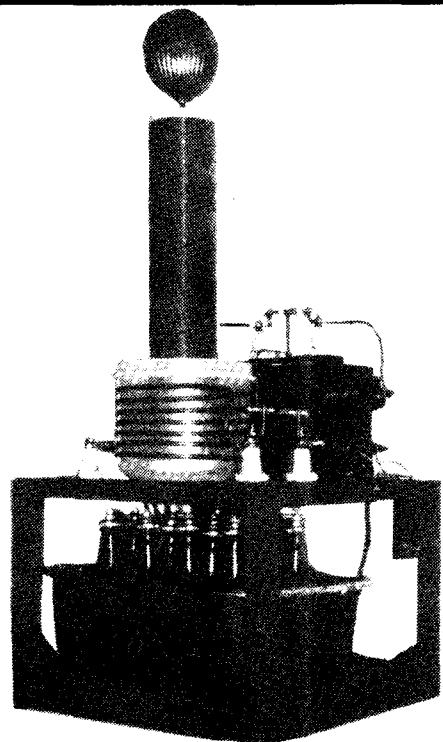
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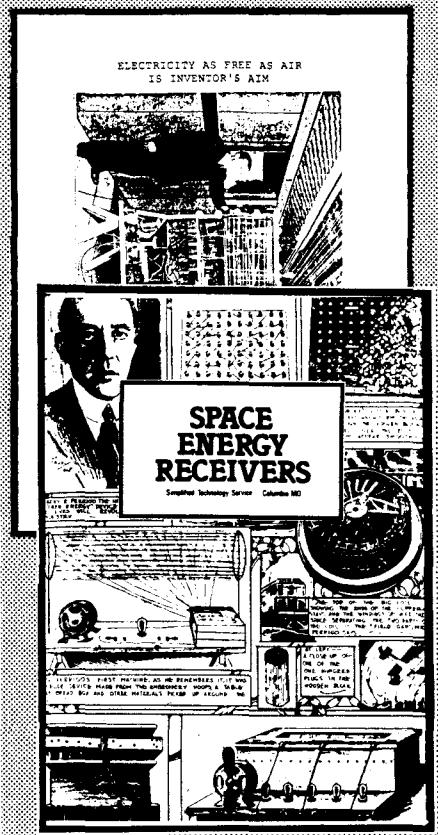
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